

# LARSEN KULROD ANTENNA CATALOG



"Larsen delivers."





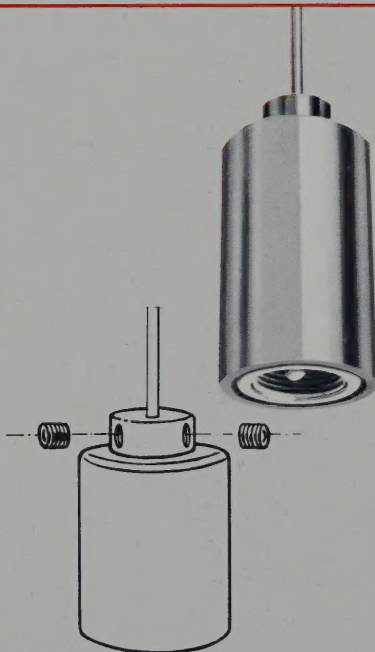
# Larsen Kūlrod® Communications Antennas...

**Designed so you can  
SEE and HEAR a difference!**

Practical performance, long range dependability and attractive appearance are the yardsticks which characterize Larsen Kūlrod Antennas.

Over the years we at Larsen's have worked to provide antennas that are superior in every way. That remains our goal today. Our company has grown in a relatively few years from a "home basement" operation to a world-wide business. We feel that this is a measure of our success in making the Larsen Kūlrod a truly superior antenna.

Jim Larsen, K7GE  
President, Larsen Electronics, Inc.



Kūlrod® and Kūlduckie™ are trademarks of Larsen Electronics, Inc., USA and Larsen Electronics, Ltd., Canada.

**The Kūlrod Difference.** The Larsen Kūlrod Antenna has been engineered to give maximum performance and years of service. The whip on all mobile antennas is made of 17-7 PH precision tapered stainless steel for durable flexibility while minimizing radiation pattern distortion at higher vehicle speeds. It is quadruple-plated with a Larsen developed combination of nickel, copper and chrome to assure maximum power radiation efficiency. With the Larsen Kūlrod Antenna, RF energy goes into communication power rather than into heating the rod.

**Streamlined Appearance.** Larsen Kūlrod Antennas are designed for eye appeal with a neat, low profile base that blends perfectly with today's vehicles. An occasional quick wipe with a damp cloth and soap will keep the entire antenna looking new and shiny. The specially selected platings on mount rings and threads add to the appearance and keeps corrosion build-up to a minimum.

**Super-Efficient Air Wound Coils.** The loading coils in Larsen Antennas are air wound for the most efficient transfer of communication energy. There is no power absorbing core. The base loading coil when used is made of extra heavy wire to stay in position and will not detune with years of use. The cutting of the antenna rod to the dimensions supplied in the cutting chart assures lowest V.S.W.R.

**Double-Locked Antenna Whips.** Two allen head set screws hold Larsen Kūlrod Antennas firmly in the base regardless of vehicle speed or vibration. The non-seizing screws are of a corrosion resistant stainless steel alloy which is extremely hard and grips the antenna solidly.

## The Larsen Modular Antenna/Hardware System lets you mix and match to fit your needs.

The Larsen Antenna and Mounting Hardware System is unique in the antenna communications field. With Larsen you do not need to buy or have in stock a multitude of complete antennas with mounts, whips, etc. in order to fit a multiplicity of frequency, mount and performance needs. You can order individual components for the operating combination that fits your requirements and do so without sacrifice in either performance or cost. The parts costs will total to the same figure as the complete antenna.

Larsen's complete line of antennas and mounts are shown and described in detail for easy ordering on pages 3 through 32. Miscellaneous hardware and parts are listed on pages 33 through 35. For further information, contact the nearest Larsen Representative or call the Larsen factory. (Phone numbers inside back cover.)

Remember . . . it costs no more to have the inventory and convenience advantages of the Larsen "M" System.



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**Note:** All materials and specifications outlined in this catalog are subject to change or modification without notice. Purchasers are assured that they will receive antennas or accessories that will not in any case degrade the product performance.



## The Larsen EASY MEMORY Nomenclature System

The Larsen Antenna identification system is easily understood and even more easily remembered.

Each antenna is designated by a letter and number combination. The first letter series indicates the mount with which the antenna is to mate. The figures show the frequency range. Thus the NLA-150 designation indicates an antenna for the Larsen NLA mount and to operate on the 150 MHz band. If you want to designate a complete antenna with the base, whip **and** mounting hardware including coax, plug, etc., you add a "K" after the frequency numbers.

Even the "initials" are easy to remember. They follow as closely as possible the actual names and/or development of the individual antennas. Thus, the first Larsen Antenna was given the "LA" designation. When an improved Larsen eliminated the long time black ball insulator, the model was designated as the "NLA" for "New Larsen Antenna". This same approach designated the new Motorola (TAD - TAE series) as "NMO", the BSA-K for the "Base Station Adapter Kit", the "MM" being the "Magnetic Mount", the TLM the "Trunk Lid Mount", and so on. It's easy. It's simple.

### NMO - 150 - K

Designates antenna to go on Motorola mount - (TAD and TAE series).

Indicates antenna is for 150 MHz range.

Designates a complete antenna and all mounting hardware, coax, etc.

## Special Antenna Needs?

If you have any two-way antenna needs not covered in this catalog, we welcome the opportunity to be of help. We can provide individualized engineering to cover special frequency, environmental or installation situations.

Direct your inquiries to:

John Beaman  
Vice President and General Manager  
Larsen Electronics, Inc.  
P.O. Box 1686 Vancouver, WA 98668  
206/573-2722

## Base Dimensions for Larsen Mobile Antennas

Larsen Antenna bases are slightly tapered from bottom to top. Dimensions given here are at the widest point (next to the vehicle) of the taper. Height dimension includes top metal ferrule where rod attaches. For OMNI and NMO-Q as well as NLA-Q the widest points of the base (not the flats of the hexagon) are used in measuring.

Model	Diameter Inches	mm	Length Inches	mm	Model	Diameter Inches	mm	Length Inches	mm
NLA-27	1.3	33	3.3	84	NLA-220	1.3	33	2.0	51
NMO-27	1.35	34	3.3	84	NMO-220	1.3	33	1.7	43
NLA-30	1.3	33	3.3	84	LA/JM-450	1.05	26	1.7	43
NMO-30	1.35	34	3.3	84	LM-450	1.3	33	1.7	43
NLA-34	1.3	33	2.8	71	NLA-450	1.3	33	1.7	43
NMO-34	1.35	34	2.8	71	NMO-450	1.3	33	1.3	33
NLA-40	1.3	33	2.8	71	OM-450	2.15	38	2.5	52
NMO-40	1.35	34	2.8	71	PO-450	0.75	19	0.9	22
NLA-50	1.3	33	2.8	71	NOTE: UHF Antennas covering frequencies 406-420 MHz, 420-440 MHz, 440-460 MHz, 450-470 MHz, 470-490 MHz and 490-512 MHz all have same dimensions as 450 models shown above.				
NMO-50	1.35	34	2.3	58					
LA/JM-150	1.05	26	1.7	43					
LM-150	1.4	35	2.0	51					
NLA-150	1.3	33	2.0	51	JMQ	0.5	13	0.9	22
NMO-150	1.3	33	1.7	43	LAQ	0.5	13	0.9	22
OM-150	2.15	38	2.5	52	LMQ	0.5	13	0.9	22
PO-150	1.0	25	2.0	51	NLA-Q	1.7	38	1.4	35
LA/JM-220	1.05	26	1.7	43	NMO-Q	1.7	38	1.1	28
LM-220	1.4	35	2.0	51					

## Easy Model Identification. A Larsen Exclusive!

Every Larsen antenna base is now marked permanently as to model and frequency. No longer need you guess as to which antenna covers which frequency. Installation is simplified. Stock keeping is a snap. Odd lots of unidentified antennas are eliminated.

Identification is permanently sealed in plastic. You'll always know it's a Larsen—what frequency it covers and the mount it mates with.





# LARSEN KÜLROD® MOBILE ANTENNAS

## LOW BAND



### BASE LOADED MOBILE ANTENNAS

Models for permanent vehicle mounting as well as temporary types covering all low band frequencies:

27-31 MHz...30-35 MHz...  
34-40 MHz...40-50 MHz...  
47-54 MHz.

The Larsen Low Band Antennas are designed and built to deliver a difference you can hear and an improved appearance you can see. They have the exclusive Külrod that assures you maximum radiation efficiency without loss of power in rod resistance and heating. They are built with heavy duty base coils . . . air wound for no R.F. loss.

#### With Larsen Külrod you get:

- Low silhouette and minimum dimensions for less wind drag.
- Low V.S.W.R. . . . less than 1.5 to 1.
- No coils to tune—just cut the rod for required frequency.
- Radiation pattern omni on symmetrical ground plane.
- No springs to deteriorate and degrade performance.
- Guaranteed weather and water resistant.

**Handles full 200 watts of power.**

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#### ORDERING SUGGESTION

Among the various Low Band Larsen Antennas there is some overlapping of frequency coverage between models. The "30" model, for instance, covers 30-35 MHz and the "34" model accommodates 34-40 MHz. In these cases if you want to operate on 35 MHz, order the one that requires the longest whip, i.e., the highest frequency model which will cover the range. Thus, to cover 35 MHz the "34" model would be the best choice.

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For mechanical details...  
Base dimensions appear on page 2.



# LARSEN KULROD® MOBILE ANTENNAS

## LOW BAND

### NLA SERIES

Designed to give superior performance with simplified, low silhouette mounting on snap-in type hardware; such as, RCA, GE, ASP, etc. but does NOT require bulky black insulator.

- 5 frequency ranges available to cover all popular Low Bands . . . 27-54 MHz.
- Mates with NLA-K Body Mount for complete installation on Roof/Trunk/Fender or on NLA style magnetic, trunk lid, gutter or other temporary mounts.
- Rod cutting chart for specific frequencies and allen wrench furnished.
- NLA Series Antennas also fit BAM hardware. See page 33 for BAM Cowl adjustable mounting.

#### Adapter Available . . .

for NLA Series to fit BSA-K and BA type hardware. See page 33.

**27-31 MHz    40-50 MHz**  
**30-35 MHz    47-54 MHz**  
**34-40 MHz**

**For Complete Antenna and Mounting Kit for permanent roof, fender or body mounting order:**

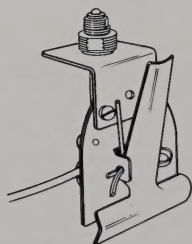
NLA-27-K. . . . . for 27-31 MHz use.  
 NLA-30-K. . . . . for 30-35 MHz use.  
 NLA-34-K. . . . . for 34-40 MHz use.  
 NLA-40-K. . . . . for 40-50 MHz use.  
 NLA-50-K. . . . . for 47-54 MHz use.

**For NLA Antenna only order:**  
 (no mounting hardware)

NLA-27. . . . . for 27-31 MHz use.  
 NLA-30. . . . . for 30-35 MHz use.  
 NLA-34. . . . . for 34-40 MHz use.  
 NLA-40. . . . . for 40-50 MHz use.  
 NLA-50. . . . . for 47-54 MHz use.

**For Body Mount Installation Kit only order:**  
 (no antenna)

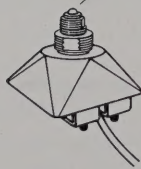
NLA-K . . . Mount comes complete with 17' RG-58 A/U coax, PL-259 plug and full instructions.



GUTTER CLAMP  
**NLA-★-GC**

for complete antenna and Gutter Clamp mount.

For Gutter Clamp mount only for NLA antenna order NLA-GC.



TRUNK LID  
**NLA-★-TLM**

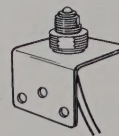
for complete antenna and Trunk Lid mount.

For Trunk Lid mount only for NLA antenna order NLA-TLM.



Permanent Body Mount  
**NLA-★-K**

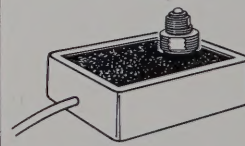
NLA-K Mount requires 3/8" hole in vehicle for simplest, lowest silhouette snap-in type mounting available anywhere.



TRUNK GUTTER  
**NLA-★-TMB**

for complete antenna and Trunk Gutter mount.

For Trunk Gutter mount only for NLA antenna order NLA-TMB.



MAGNETIC MOUNT  
**NLA-★-MM**

for complete antenna and Magnetic mount.

For Magnetic mount only for NLA antenna order NLA-MM.

★ Fill in frequency model needed. Examples: NLA-27-GC, NLA-40-TLM, NLA-30-TMB, etc.

*All Temporary Mounts come complete with coax and plug. Coax is factory attached to mount.  
 Permanent Mounts also include coax, plug & adapter.*



# LARSEN KULROD® MOBILE ANTENNAS

## LOW BAND

### NMO SERIES

Designed specifically to mate with Motorola TAD and TAE type mounting hardware to give a top performing antenna with superior design appearance.

- Available in 5 models to cover all Low Band frequencies.
- Supplied complete with cutting chart and allen wrench.
- Mates with NMO-K Body Mount for complete installation on Roof/Trunk/Fender. Also mates with temporary mounts such as Gutter Clamp, Magnetic, Trunk Gutter, etc. See below.

**27-31 MHz    40-50 MHz**  
**30-35 MHz    47-54 MHz**  
**34-40 MHz**

**For Complete Antenna and Mounting Kit** for permanent roof, fender, or body mounting order:

NMO-27-K . . . . . for 27-31 MHz use.  
 NMO-30-K . . . . . for 30-35 MHz use.  
 NMO-34-K . . . . . for 34-40 MHz use.  
 NMO-40-K . . . . . for 40-50 MHz use.  
 NMO-50-K . . . . . for 47-54 MHz use.

**For NMO Antenna only order:**  
 (no mounting hardware)

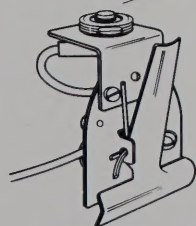
NMO-27 . . . . . for 27-31 MHz use.  
 NMO-30 . . . . . for 30-35 MHz use.  
 NMO-34 . . . . . for 34-40 MHz use.  
 NMO-40 . . . . . for 40-50 MHz use.  
 NMO-50 . . . . . for 47-54 MHz use.

**For Body Mount Installation Kit only**  
 order: (no antenna)

NMO-K . . . Mount comes complete with 17' RG-58 A/U coax factory attached, PL-259 plug and full instructions.

#### Adapters

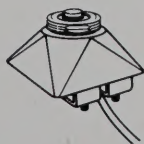
NMO to BSA Mount  
 NMO to BAM Mount  
 See page 33.



GUTTER CLAMP  
**NMO-★-GC**

for complete antenna and Gutter Clamp mount.

For Gutter Clamp mount only for NMO antenna order NMO-GC.



TRUNK LID  
**NMO-★-TLM**

for complete antenna and Trunk Lid mount.

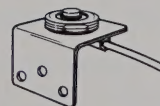
For Trunk Lid mount only for NMO antenna order NMO-TLM.



Permanent Body Mount

#### **NMO-★-K**

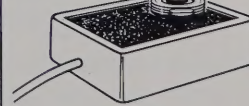
NMO-K Mount requires 3/4" hole in vehicle. Provides roof hugging installation and positive connection to ground plane for top performance and maximum mechanical rigidity.



TRUNK GUTTER  
**NMO-★-TMB**

for complete antenna and Trunk Gutter mount.

For Trunk Gutter mount only for NMO antenna order NMO-TMB.



MAGNETIC MOUNT  
**NMO-★-MM**

for complete antenna and Magnetic mount.

For Magnetic mount only for NMO antenna order NMO-MM.

★ Fill in frequency model needed. Examples: NMO-27-GC, NMO-40-TLM, NMO-30-TMB, etc.

*All Temporary Mounts come complete with coax and plug. Coax is factory attached to mount.  
 Permanent Mounts also include coax, plug & adapter.*



# LARSEN KÜLROD® MOBILE ANTENNAS

## CB

### Personal Radio

Do not confuse Larsen Külrod CB Antennas with the usual "rod and mount" mobile antenna that you can buy for much less. These Larsen's are the same antennas designed for the tough competition of the commercial two-way radio field. They have to justify their higher cost with a difference you can see and HEAR. They do.

Antennas only or mounts only available. See preceding two pages.

#### Model NMO-27-K

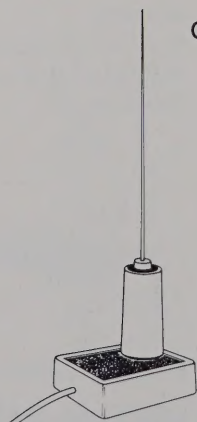
Complete antenna and permanent roof/body/fender mount. Mounts in 3/4 inch hole in vehicle. Comes complete with 17 feet of coax attached to mount, PL-259 plug and full instructions.

#### Model NLA-27-K

Complete antenna and permanent mounting hardware for roof/fender/car body. Requires 3/8 inch hole in vehicle. Comes with 17 feet of RG58 A/U coax, PL-259 plug and full instructions.

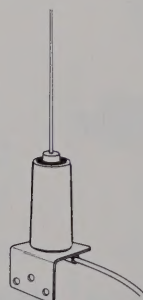
### 4 Temporary Mounting Styles

Give great flexibility of installation and practical options for no-holes mounting and top performance. Helps to solve the "rip-off" problem.



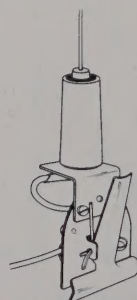
#### MAGNETIC MOUNT NLA-27-MM NMO-27-MM

Complete with antenna, attached coax and plug. Holds at any legal highway speed. Magnets guaranteed permanent under normal use.



#### GUTTER CLAMP MOUNT NLA-27-GC NMO-27-GC

Complete Külrod antenna and a fast on-off mount that provides an answer for temporary, no-holes application. Includes coax and plug that are factory installed.



#### TRUNK GUTTER MOUNT NLA-27-TMB NMO-27-TMB

Includes Külrod antenna and stainless steel bracket that fastens to trunk gutter with 3 sheet metal screws. Use for trunk or engine hood applications. Comes with 17 feet of coax, connector, instructions.



#### TRUNK LID MOUNT NLA-27-TLM NMO-27-TLM

Complete with Külrod antenna and mount that attaches to under side of trunk hood for no-holes, no-mar mounting. Includes attached coax and plug plus full instructions.



# LARSEN KÜLROD® MOBILE ANTENNAS

# HIGH BAND

## BASE LOADED MOBILE ANTENNAS

**Deliver full 3 db GAIN  
over 1/4 wave whip!**

Models for 9 different permanent vehicle  
mounts plus 4 temporary mounts and  
covering all high band frequencies:

**144-174 MHz...200-265 MHz**

Appearance . . . performance . . . dependable  
long-term service . . . those are the key words  
describing the Larsen High Band Mobile Gain  
Antenna. It adds up to a difference you can  
see and a difference you can hear . . . par-  
ticularly because of the exclusive Larsen  
Külrod that assures you maximum radiation  
efficiency without loss of power through  
rod heating.

### With Larsen Külrod Antennas you get:

- Lowest silhouette and smallest dimensions  
for minimum wind drag.
- Very, very low V.S.W.R. . . . less than 1.5 to 1.
- No high RF loss mounting springs to de-  
teriorate effective radiation.
- Tough and reliable base structure guar-  
anteed weather and water resistant.
- Just cut whip for required frequency fol-  
lowing the supplied chart.

### All Larsen High Band Antennas handle full 200 watts of power.

Pick the model of Larsen Külrod Gain Antenna  
from the following page and get ready to  
HEAR the difference.

For mechanical details...  
Base dimensions appear on page 2.





# LARSEN KULROD® MOBILE ANTENNAS

## HIGH BAND

### NLA SERIES

The most popular and best selling 3/8" mount model, bar none. Delivers top performance and the best looking, roof hugging installation on snap-in type hardware such as RCA, GE, ASP, etc.; but does NOT require the bulky black insulator. Proved . . . practical . . . a great performer.

- 2 frequency range models available, 144-174 MHz and 200-265 MHz.
- Mates with NLA-K Body Mount for complete installation on vehicle Roof/Trunk/Fender or on NLA style Magnetic, Trunk Lid, Gutter or other temporary mounts.
- Rod cutting chart supplied for specific frequencies and allen wrench for whip mounting.
- NLA Series Antennas also fit BAM hardware. See page 33 for BAM Cowl adjustable mounting.

**144-174 MHz  
200-265 MHz**

**For Complete Antenna and Mounting Kit for permanent roof, fender or body mounting order:**

NLA-150-K . . . . . for 144-174 MHz use.  
NLA-220-K . . . . . for 200-265 MHz use.

**For NLA Antenna Only order:**  
(no mounting hardware)

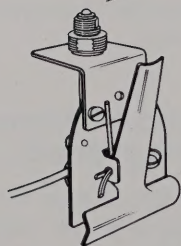
NLA-150 . . . . . for 144-174 MHz use.  
NLA-220 . . . . . for 200-265 MHz use.

**For Body Mount Installation Kit only order:**  
(no antenna)

NLA-K . . . Mount comes complete with 17' RG-58 A/U coax, PL-259 plug and full instructions.

**Adapter Available . . .**

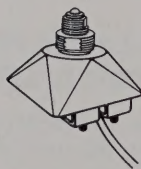
for NLA Series to fit BSA-K and BA type hardware. See page 33.



**GUTTER CLAMP  
NLA-★-GC**

for complete antenna and Gutter Clamp mount.

For Gutter Clamp mount only for NLA antenna order NLA-GC.



**TRUNK LID  
NLA-★-TLM**

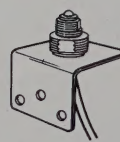
for complete antenna and Trunk Lid mount.

For Trunk Lid mount only for NLA antenna order NLA-TLM.



**Permanent  
Body Mount  
NLA-★-K**

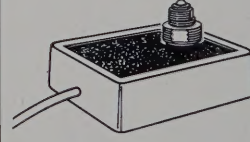
NLA-K Mount requires 3/8" hole in vehicle for simplest, lowest silhouette, snap-in type mounting available anywhere.



**TRUNK GUTTER  
NLA-★-TMB**

for complete antenna and Trunk Gutter mount.

For Trunk Gutter mount only for NLA antenna order NLA-TMB



**MAGNETIC MOUNT  
NLA-★-MM**

for complete antenna and Magnetic mount.

For Magnetic mount only for NLA antenna order NLA-MM.

★ Fill in frequency model needed. Examples: NLA-150-GC, NLA-220-TLM, NLA-150-TMB, etc.

*All Temporary Mounts come complete with coax and plug. Coax is factory attached to mount.  
Permanent Mounts also include coax, plug & adapter.*



# LARSEN KULROD® MOBILE ANTENNAS

## HIGH BAND

### NMO SERIES

Antenna designed specifically to mate with the popular Motorola TAD and TAE type mounting hardware to give a top performance and soundly engineered design for roof hugging appearance.

- Mates with NMO-K Body Mount for complete installation on vehicle Roof/Trunk/Fender or on NMO style Magnetic, Trunk Lid, Gutter or other temporary mounts.
- Available in models for both 144-174 MHz and 200-265 MHz ranges.
- Supplied complete with cutting chart and allen wrench for whip mounting.

**144-174 MHz  
200-265 MHz**

**For Complete Antenna and Mounting Kit for permanent roof, fender or body mounting order:**

NMO-150-K ..... for 144-174 MHz use.  
NMO-220-K ..... for 200-265 MHz use.

**For NMO Antenna only order:**  
(no mounting hardware)

NMO-150 ..... for 144-174 MHz use.  
NMO-220 ..... for 200-265 MHz use.

**For Body Mount Installation Kit only order:**  
(no antenna)

NMO-K . . . Mount comes complete with 17' RG-58 A/U coax factory attached, plus connector plug and full mounting instructions.

#### Adapters

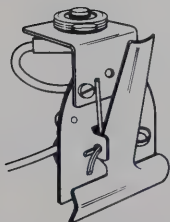
NMO to BSA Mount  
NMO to BAM Mount  
See page 33.



Permanent  
Body Mount

**NMO-★-K**

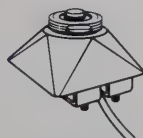
NMO-K Mount requires 3/4" hole in vehicle. Provides roof hugging installation and positive ground connection for top performance and maximum mechanical rigidity.



GUTTER CLAMP  
**NMO-★-GC**

for complete antenna and Gutter Clamp mount.

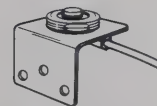
For Gutter Clamp mount only for NMO antenna order NMO-GC.



TRUNK LID  
**NMO-★-TLM**

for complete antenna and Trunk Lid mount.

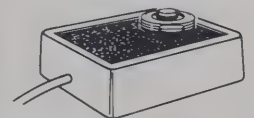
For Trunk Lid mount only for NMO antenna order NMO-TLM.



TRUNK GUTTER  
**NMO-★-TMB**

for complete antenna and Trunk Gutter mount.

For Trunk Gutter mount only for NMO antenna order NMO-TMB.



MAGNETIC MOUNT  
**NMO-★-MM**

for complete antenna and Magnetic mount.

For Magnetic Mount only for NMO antenna order NMO-MM.

★ Fill in frequency model needed. Examples: NMO-150-GC, NMO-220-TLM, NMO-150-TMB, etc.

*All Temporary Mounts come complete with coax and plug. Coax is factory attached to mount.  
Permanent Mounts also include coax, plug & adapter.*



# LARSEN KULROD® MOBILE ANTENNAS

## HIGH BAND

### LM SERIES

Designed to mate with the Larsen LM Mount to provide a rugged, roof-hugging installation with high efficiency ground plane contact for full antenna gain potential. Preferred by many installers for its ease and flexibility of application.

- Mates with LM-K Body Mount for a perfect fit on Roof/Trunk/Fender or on LM style Magnetic, Trunk Lid, Gutter or other temporary mounts.
- Also mates with Larsen JM-K as well as new GE mount and others having 5/16"x24 stud.
- Rod cutting chart supplied so you get lowest V.S.W.R. on any specific frequency. Allen wrench for rod mounting provided.

**144-174 MHz**  
**200-265 MHz**

**For Complete Antenna and Mounting Kit for permanent roof, fender or body mounting order:**

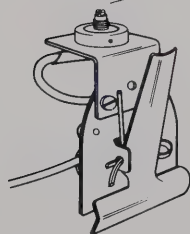
LM-150-K .....for 144-174 MHz use.  
LM-220-K .....for 200-265 MHz use.

**For LM Antenna only order:**  
(no mounting hardware)

LM-150 .....for 144-174 MHz use.  
LM-220 .....for 200-265 MHz use.

**For Body Mount Installation Kit only order:**  
(no antenna)

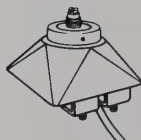
LM-K . . . Mount comes complete with 17' RG-58 A/U coax, PL-259 plug and fully illustrated instructions. Coax is factory attached to the mount.



GUTTER CLAMP  
**LM-\*-GC**

for complete antenna and Gutter Clamp mount.

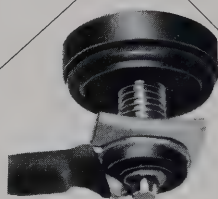
For Gutter Clamp mount only for LM antenna order LM-GC.



TRUNK LID  
**LM-\*-TLM**

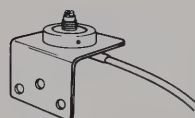
for complete antenna and Trunk Lid mount.

For Trunk Lid mount only for LM antenna order LM-TLM.



Permanent  
Body Mount  
**LM-\*-K**

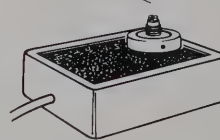
LM-K Mount requires 3/4" hole in vehicle. Only 3 simple parts go on quickly following easy step by step instructions.



TRUNK GUTTER  
**LM-\*-TMB**

for complete antenna and Trunk Gutter mount.

For Trunk Gutter mount only for LM antenna order LM-TMB.



MAGNETIC MOUNT  
**LM-\*-MM**

for complete antenna and Magnetic mount.

For Magnetic Mount only for LM antenna order LM-MM.

\* Fill in frequency model needed. Examples: LM-150-GC, LM-220-TLM, LM-150-TMB, etc.

*All Temporary Mounts come complete with coax and plug. Coax is factory attached to mount.  
Permanent Mounts also include coax, plug & adapter.*



# LARSEN KULROD® MOBILE ANTENNAS HIGH BAND

## LA/JM SERIES

**Note:** The JM Antenna is directly interchangeable with the Larsen LA model and is designated as the LA/JM model. Both mount on a 5/16" x 24 stud.

Designed to mate with the patented JM Mount or any mount that provides a 5/16" x 24 thread stud such as the LA snap-in style of mount. The slender tapered configuration presents minimum wind drag.

- Models available for both 150 and 200 MHz ranges.
- Rod cutting chart supplied for each frequency plus allen wrench for whip mounting.
- Mates with either LA-K or JM-K Body Mount for complete installation on vehicle Roof/Trunk/Fender or on LM style Magnetic, Trunk Lid, Gutter or other temporary mounts.

**144-174 MHz  
200-265 MHz**

**For Complete Antenna and Mounting Kit for permanent roof, fender or body mounting order:**

LA-150-K ..... for 144-174 MHz use.  
LA-220-K ..... for 200-265 MHz use.  
JM-150-K ..... for 144-174 MHz use.  
JM-220-K ..... for 200-265 MHz use.

**For LA or JM Antenna only order:**  
(no mounting hardware)

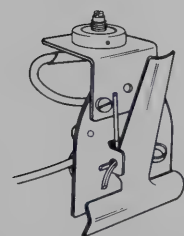
LA-150 ..... for 144-174 MHz use.  
LA-220 ..... for 200-265 MHz use.  
JM-150 ..... for 144-174 MHz use.  
JM-220 ..... for 200-265 MHz use.

**For Body Mount Installation Kit only order:**  
(no antenna)

Either the LA-K or JM-K. Both require 3/8" hole in vehicle and are designed for complete blind mounting from exterior of vehicle.

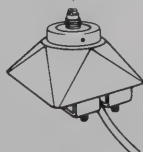
LA-K and JM-K Mounts come complete with 17' RG-58 A/U coax, PL-259 plug and full instructions for easy step-by-step mounting.

JM Antenna Mount for Vehicles  
U.S. Patent 3,944,722



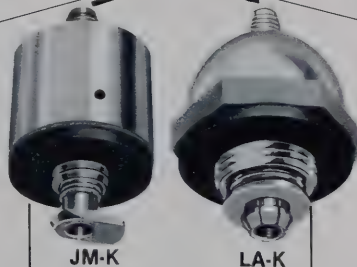
GUTTER CLAMP  
**LM-GC**

To get Gutter Clamp mount for LA/JM antenna order LM-GC.



TRUNK LID  
**LM-TLM**

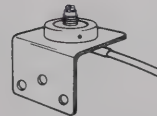
To get Trunk Lid mount for LA/JM antenna order LM-TLM.



JM-K  
LA-K  
Permanent Body Mounts

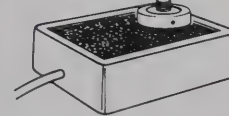
**LA-★-K  
or  
JM-★-K**

★ Fill in frequency model needed.



TRUNK GUTTER  
**LM-TMB**

To get Trunk Gutter mount for LA/JM antenna order LM-TMB.



MAGNETIC MOUNT  
**LM-MM**

To get Magnetic Mount for LA/JM antenna order LM-MM.

★ LA/JM antennas fit LM series temporary mounts. **Order mount and antenna separately.**

*All Temporary Mounts come complete with coax and plug. Coax is factory attached to mount.  
Permanent Mounts also include coax, plug & adapter.*



# LARSEN KÜLROD® MOBILE ANTENNAS

## UHF

### MOBILE GAIN ANTENNAS

Deliver full 5 db GAIN over ¼ wave whip!

- Models for 5 different vehicle permanent mounts and a variety of temporary mounts.
- Full frequency coverage in 6 ranges from 406 MHz to 512 MHz.

406-420 MHz...420-440 MHz

440-460 MHz...450-470 MHz

470-490 MHz...490-512 MHz

The Larsen UHF Külrod Gain Antenna uses a collinear design that aims the signal at the horizon for maximum effectiveness and an effective power gain . . . a gain that you can HEAR. The antenna phasing coil is engineered so as to minimize wind drag and antenna rod distortion at high vehicle speeds. It, and the base loading coil, are fully waterproofed including for the wettest place in the U.S. . . . the Olympic Rain Forest where they were field tested.

#### With Larsen UHF Mobile Antennas you get:

- The greater radiation efficiency of exclusive Külrod.
- Extremely low V.S.W.R.... less than 1.5 to 1.
- A unit that is an exact match for every popular style of mounting hardware.
- No coils to tune . . . just cut the lower section of the whip following the furnished cutting chart.

#### Handles a full 150 watts of output power.

- Comes complete with allen wrench and measuring rule.
- Maximum rod length 31" (787 mm)

#### \*\*Special Frequency Needs . . .

Larsen Antennas are available to cover 406-512 MHz in 6 different frequency ranges. Inquire of factory for specific needs not covered by the frequency ranges shown on the following pages.

For mechanical details...  
Base dimensions appear on page 2.





# LARSEN KULROD® MOBILE ANTENNAS

## UHF

### NLA SERIES

For low silhouette, roof hugging good looks this model can't be beat. Delivers a difference that you can HEAR, too. Mates with the popular snap-in type hardware such as RCA, GE, ASP, etc. but does not require the bulky black-ball insulator. Weatherproof, tough, durable and a great performer.

- Available in six models to cover 406-512 MHz. Other frequencies on special order. Inquire of factory.
- Mates with Larsen NLA-K Body Mount for complete installation on vehicle Roof/Trunk/Fender and with temporary mounts as shown below.
- Rod cutting chart, allen wrench and measuring rule supplied for adjusting to any frequency with low, low V.S.W.R.
- NLA Series Antennas also fit BAM hardware. See page 33 for BAM Cowl adjustable mounting.
- Optional narrow diameter shock spring made of electropolished stainless steel, positively shorted for dependable performance. See page 35.

Optional  
shock  
spring.  
See  
below.

406-420 MHz  
420-440 MHz  
440-460 MHz  
450-470 MHz  
470-490 MHz  
490-512 MHz

**Complete Antenna and Mounting Kit** for permanent roof, fender or body mounting available for the six frequency ranges shown above.

To order, specify the **low** number of the range desired.

Example:

NLA-450-K . . . . . for 450-470 MHz use.

**To order the NLA Antenna only** (no mounting hardware) specify the **low** number of the range desired.

Example:

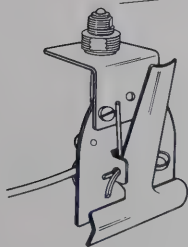
NLA-450 . . . . . for 450-470 MHz use.

**For Body Mount Installation Kit only** (no antenna) order:

NLA-K . . . Mount comes complete with 17' RG-58 A/U coax, PL-259 connector and full instructions.

**Adapter Available . . .**

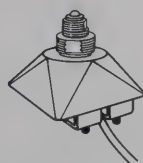
for NLA Series to fit BSA-K and BA type hardware. See page 33.



GUTTER CLAMP  
**NLA-★-GC**

for complete antenna and Gutter Clamp mount.

For Gutter Clamp mount only for NLA antenna order NLA-GC.



TRUNK LID  
**NLA-★-TLM**

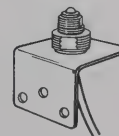
for complete antenna and Trunk Lid mount.

For Trunk Lid mount only for NLA antenna order NLA-TLM.



Permanent  
Body Mount  
**NLA-★-K**

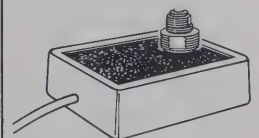
NLA-K Mount requires 3/8" hole in vehicle for simplest, very low silhouette installation using snap-in type hardware.



TRUNK GUTTER  
**NLA-★-TMB**

for complete antenna and Trunk Gutter mount.

For Trunk Gutter mount only for NLA antenna order NLA-TMB.



MAGNETIC MOUNT  
**NLA-★-MM**

for complete antenna and Magnetic mount.

For Magnetic mount only for NLA antenna order NLA-MM.

★ Fill in frequency model needed. Examples: NLA-450-GC, NLA-440-TLM, NLA-450-TMB, etc.

*All Temporary Mounts come complete with coax and plug. Coax is factory attached to mount.  
Permanent Mounts also include coax, plug & adapter.*



# LARSEN KULROD® MOBILE ANTENNAS

## UHF

### NMO SERIES

This Larsen Antenna was designed specifically to mate with the popular Motorola TAD and TAE type mounting hardware. It delivers proved superior performance with low silhouette and rugged dependability. You also get the desired gain that makes an important difference in communicating.

- Mates with Larsen NMO-K Body Mount for a complete installation on vehicle Roof/Trunk/Fender and with temporary mounts as shown below.
- Comes complete with cutting chart, measuring rule, instructions and allen wrench for whip installation.
- Optional narrow diameter shock spring made of electropolished stainless steel, positively shorted for dependable performance. See page 35.

*Optional  
shock  
spring.  
See  
below.*

406-420 MHz  
420-440 MHz  
440-460 MHz  
450-470 MHz  
470-490 MHz  
490-512 MHz

**Complete Antenna and Mounting Kit** for permanent roof, fender or body mounting available for the six frequency ranges shown above.

To order, specify the **low** number of the range desired.

Example:

NMO-450-K ..... for 450-470 MHz use.

**To order the NMO Antenna only** (no mounting hardware) specify the **low** number of the range desired.

Example:

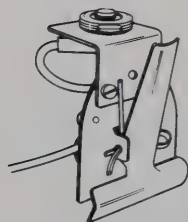
NMO-450 ..... for 450-470 MHz use.

**For Body Mount Installation Kit only** (no antenna) order:

NMO-K . . . Mount comes complete with 17' RG-58 A/U coax, PL-259 connector and full instructions.

#### Adapters

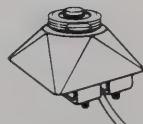
NMO to BSA Mount  
NMO to BAM Mount  
See page 33.



GUTTER CLAMP  
**NMO-★-GC**

for complete antenna and Gutter Clamp mount.

For Gutter Clamp mount only for NMO antenna order NMO-GC.



TRUNK LID  
**NMO-★-TLM**

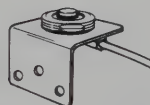
for complete antenna and Trunk Lid mount.

For Trunk Lid mount only for NMO antenna order NMO-TLM.



Permanent  
Body Mount  
**NMO-★-K**

NMO-K Mount requires 3/4" hole in vehicle. Provides a roof hugging installation and positive connection to the ground plane.



TRUNK GUTTER  
**NMO-★-TMB**

for complete antenna and Trunk Gutter mount.

For Trunk Gutter mount only for NMO antenna order NMO-TMB.



MAGNETIC MOUNT  
**NMO-★-MM**

for complete antenna and Magnetic mount.

For Magnetic mount only for NMO antenna order NMO-MM.

★ Fill in frequency model needed. Examples: NMO-450-GC, NMO-440-TLM, NMO-450-TMB, etc.

*All Temporary Mounts come complete with coax and plug. Coax is factory attached to mount.*

*Permanent Mounts also include coax, plug & adapter.*



# LARSEN KULROD® MOBILE ANTENNAS

## UHF

### LM SERIES

This exclusive Larsen design mates perfectly with the improved Larsen Mount to complete an installation that is both a performance and appearance winner. The roof gripping power of the mount assures a positive connection to the ground plane and the full gain potential of the collinear design.

- Available in six models to cover 406-512 MHz. Other frequencies on special order. Inquire of factory.
- Mates with Larsen LM-K Body Mount for perfect fit on Roof/Trunk/Fender and fits temporary mounts as shown below.
- Rod cutting chart, measuring rule and allen wrench supplied.
- Optional narrow diameter shock spring made of electropolished stainless steel, positively shorted for dependable performance. See page 35.

Optional  
shock  
spring.  
See  
below.

406-420 MHz  
420-440 MHz  
440-460 MHz  
450-470 MHz  
470-490 MHz  
490-512 MHz

**Complete Antenna and Mounting Kit** for permanent roof, fender or body mounting available for the six frequency ranges shown above.

To order, specify the **low** number of the range desired.

Example:

LM-450-K ..... for 450-470 MHz use.

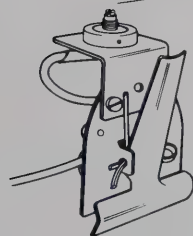
**To order the LM Antenna only** (no mounting hardware) specify the **low** number of the range desired.

Example:

LM-450 ..... for 450-470 MHz use.

**For Body Mount Installation Kit only** (no antenna) order:

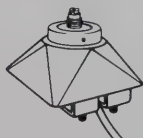
LM-K . . . Mount comes complete with 17' RG-58 A/U coax, PL-259 connector and full instructions.



GUTTER CLAMP  
**LM-★-GC**

for complete antenna and Gutter Clamp mount.

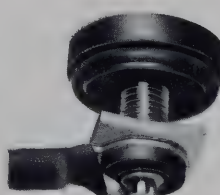
For Gutter Clamp mount only for LM antenna order LM-GC.



TRUNK LID  
**LM-★-TLM**

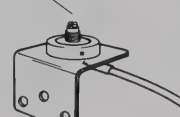
for complete antenna and Trunk Lid mount.

For Trunk Lid mount only for LM antenna order LM-TLM.



Permanent  
Body Mount  
**LM-★-K**

LM-K Mount has only 3 simple parts for rugged, fully weatherproof installation. Requires 3/4" hole in vehicle.



TRUNK GUTTER  
**LM-★-TMB**

for complete antenna and Trunk Gutter mount.

For Trunk Gutter mount only for LM antenna order LM-TMB.



MAGNETIC MOUNT  
**LM-★-MM**

for complete antenna and Magnetic mount.

For Magnetic Mount only for LM antenna order LM-MM.

★ Fill in frequency model needed. Examples: LM-450-GC, LM-440-TLM, LM-450-TMB, etc.

*All Temporary Mounts come complete with coax and plug. Coax is factory attached to mount.  
Permanent Mounts also include coax, plug & adapter.*



# LARSEN KULROD® MOBILE ANTENNAS

## UHF

### LA/JM SERIES

**Note:** The Larsen JM Antenna is directly interchangeable with the Larsen LA model and is designated as the LA/JM model. Both mount on a 5/16" x 24 stud.

#### Larsen Exclusive Patented Design

This Larsen high performance antenna was designed specifically to mate with the patented Larsen JM mount to give an appearance and performance second to none. It also mates with any mount that provides a 5/16" x 24 thread stud such as the LA model as shown below.

- Available in six models to cover 406-512 MHz. Other frequencies on special order. Inquire of factory.
- Mates with JM-K body mount for complete permanent installation on Roof/Trunk/Fender and with the temporary mounts as shown below.
- Rod cutting chart, measuring rule and allen wrench for whip mounting are supplied.
- Optional narrow diameter shock spring made of electropolished stainless steel, positively shorted for dependable performance. See page 35.

406-420 MHz  
420-440 MHz  
440-460 MHz  
450-470 MHz  
470-490 MHz  
490-512 MHz

**Complete Antenna and Mounting Kit** for permanent roof, fender or body mounting available for the six frequency ranges shown above.

To order, specify the **low** number of the range desired.

Examples:

LA-450-K .....for 450-470 MHz use.

JM-450-K .....for 450-470 MHz use.

**To order LA or JM Antennas only** (no mounting hardware) specify the **low** number of the range desired.

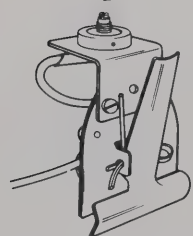
Examples:

LA-450 .....for 450-470 MHz use.

JM-450 .....for 450-470 MHz use.

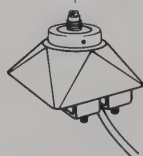
**For Body Mount Installation Kit only** (no antenna) order: LA-K or JM-K. Both require 3/8" hole in vehicle and are designed for complete blind mounting from exterior of vehicle.

JM Antenna Mount for vehicles  
U.S. Patent 3,944,722



GUTTER CLAMP  
**LM-GC**

To get  
Gutter Clamp mount  
for LA/JM antenna  
order LM-GC.



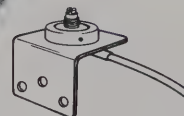
TRUNK LID  
**LM-TLM**

To get  
Trunk Lid mount  
for LA/JM antenna  
order LM-TLM.



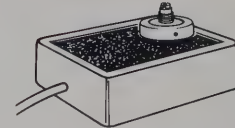
JM-K Permanent  
Body Mounts  
**JM-★-K**  
or  
**LA-★-K**

★ Fill in  
frequency model  
needed.



TRUNK GUTTER  
**LM-TMB**

To get  
Trunk Gutter mount  
for LA/JM antenna  
order LM-TMB.



MAGNETIC MOUNT  
**LM-MM**

To get  
Magnetic mount  
for LA/JM antenna  
order LM-MM.

★ LA/JM antennas fit LM series temporary mounts. **Order mount and antenna separately.**

*All Temporary Mounts come complete with coax and plug. Coax is factory attached to mount.  
Permanent Mounts also include coax, plug & adapter.*



# LARSEN KULROD® MOBILE ANTENNAS

## 800 MHz

### NMO SERIES

**Deliver full 5 db GAIN over 1/4 wave whip!**

This Larsen Antenna was designed specifically to mate with the popular Motorola TAD and TAE type mounting hardware. It delivers proven superior performance with low silhouette and rugged dependability. You also get the desired gain that makes an important difference in communicating.

- Mates with Larsen NMO-LLK Body Mount for a complete installation on vehicle Roof/Trunk/Fender and with temporary mounts as shown below.
- Includes narrow diameter shock spring made of electropolished stainless steel, positively shorted for dependable performance.

**Complete Antenna and Mounting Kit** for permanent roof, fender or body mounting available for all six frequency ranges shown above.

To order, specify the **low** number of the range desired.

Example:

NMO-800-LLK .....for  
800-860 MHz use.

**To order the NMO Antenna only** (no mounting hardware) specify the **low** number of the range desired.

Example:

NMO-800 .....for  
800-860 MHz use.

**For Body Mount Installation Kit only** (no antenna) order: LM-LLK .....Mount comes complete with 17' AA-3096 coax, PL-259 connector and full instructions. Add suffix "N" to get kit with N connector instead of PL-259.



Permanent  
Body Mount

### NMO - \* - LLK

NMO-LLK Mount requires 3/4" hole in vehicle. Provides a roof hugging installation and positive connection to the ground plane.

\* Fill in frequency model needed.  
Example: NMO-800-LLK

800-860 MHz

### LM SERIES

**Deliver full 5 db GAIN over 1/4 wave whip!**

This exclusive Larsen design mates perfectly with the improved Larsen Mount to complete an installation that is both a performance and appearance winner. The roof gripping power of the mount assures a positive connection to the ground plane and the full gain potential of the collinear design.

- Available for 800-860 MHz band. Other frequencies on special order. Inquire of factory.
- Mates with Larsen LM-LLK Body Mount for perfect fit on Roof/Trunk/Fender and fits temporary mounts as shown below.
- Includes narrow diameter shock spring made of electropolished stainless steel, positively shorted for dependable performance.

**Complete Antenna and Mounting Kit** for permanent roof, fender or body mounting available for all six frequency ranges shown above.

To order, specify the **low** number of the range desired.

Example:

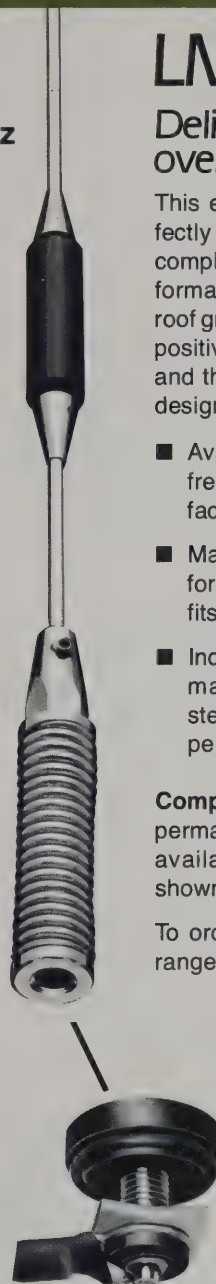
LM-800-LLK .....for  
800-860 MHz use.

**To order the LM Antenna only** (no mounting hardware) specify the **low** number of the range desired.

Example:

LM-800 .....for  
800-860 MHz use.

**For Body Mount Installation Kit only** (no antenna) order: LM-LLK .....Mount comes complete with 17' AA-3096 coax, PL-259 connector and full instructions. Add suffix "N" to get kit with N connector instead of PL-259.



Permanent  
Body Mount

### LM - \* - LLK

LM-LLK Mount has only 3 simple parts for rugged, fully weatherproof installation. Requires 3/4" hole in vehicle.

\* Fill in frequency model needed.  
Example: LM-800-LLK

*Permanent Mounts include coax, plug & adapter.*



# LARSEN KÜLROD® MOBILE ANTENNAS

## QUARTER WAVE

**52-88 MHz      800-860 MHz**  
**88-136 MHz**  
**136-512 MHz**

Larsen quarter wave mobile antennas are soundly engineered and quality built antenna systems that deliver a difference you can hear. Available in Low Band, High Band and UHF frequencies. All have whips of tough 17-7PH stainless steel precisely engineered with a diameter/length ratio that minimizes bending and detuning at high vehicle speeds. Every Larsen quarter wave antenna has the exclusive Külrod plating that assures maximum radiation efficiency and no loss through heat. Base is streamlined with low silhouette and roof-hugging appearance. Tapered anti-corona end-tip ball reduces chance of antenna hang up.

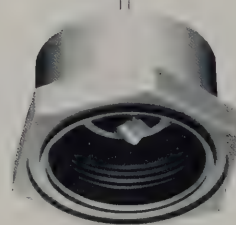
- Available in mounting styles that mate with a variety of permanent and temporary vehicle mounts.
- Maximum whip length: 52-88 - 54" (1.37 M)  
                                     88-136 - 33" (838.2 mm)  
                                     136 MHz - 20" (508 mm)  
                                     800 MHz - 3" (76.2 mm)
- Rod cutting chart and allen wrench for rod mounting included.
- Handles 200 watts of output power.
- V.S.W.R. less than 1.5 to 1 at charted frequency.

Low band and UHF kits include 17' of RG58 A/U coax, PL-259 connector and instructions. 800 MHz kits include 17' of AA-3096 coax, PL-259 or "N" connector (please specify) and instructions.

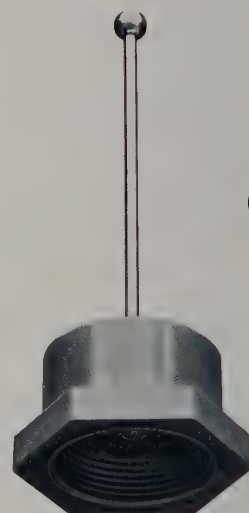
**Larsen Q Series  
 as example.  
 See chart  
 on p. 19.**



**Q-800**



**NMQQ  
 NMQQ-52  
 NMQQ-88**



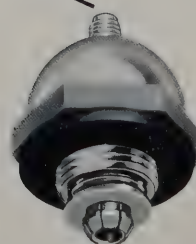
**NMQQ-800**



**JMQ-K**



**LMQ-K**

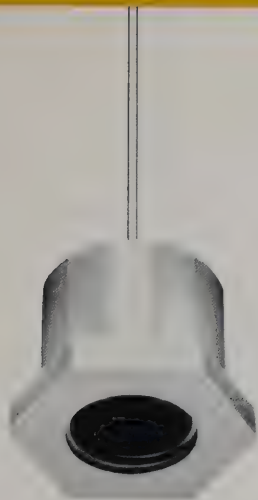


**LAQ-K**



# LARSEN KULROD® MOBILE ANTENNAS

## QUARTER WAVE



**NLAQ**  
**NLAQ-52**  
**NLAQ-88**



**PQ**



**BNCQ**



**HTQ**

Model Number	Frequency Range MHz	Radiating Element Dimensions	Replacement Whip Model No.	Fits Mounts
<b>Q-52</b>	52-88	0.100"x54"T	W-540	<b>LM-K, JM-K</b> <b>LA-K, LM-MM</b> <b>LM-GC, LM-TLM</b>
<b>Q-88</b>	88-136	0.100"x33"	W-400	
<b>Q</b>	136-512	0.070"x20"	W-200	
<b>Q-800</b>	800-860	0.100"x3"	W-030	<b>LM-LLK</b>
<b>NMQ-52</b>	52-88	0.100"x54"T	W-540	<b>NMO-K, NMO-MM</b> <b>NMO-GC</b> <b>NMO-TLM</b>
<b>NMQ-88</b>	88-136	0.100"x33"	W-400	
<b>NMQ</b>	136-512	0.070"x20"	W-200	
<b>NMQ-800</b>	800-860	0.100"x3"	W-030	<b>NMO-LLK</b>
<b>NLAQ-52</b>	52-88	0.100"x54"T	W-540	<b>NLA-K, NLA-MM</b> <b>NLA-GC</b> <b>NLA-TLM</b>
<b>NLAQ-88</b>	88-136	0.100"x33"	W-400	
<b>NLAQ</b>	136-512	0.070"x20"	W-200	
<b>PQ</b>	136-512	0.070"x20"	W-200	<b>MM-PO, GC-PO</b> <b>BSA-K</b>
<b>BNCQ</b>	136-512	0.070"x20"	W-200	Any BNC Fem. Connector**
<b>HTQ</b>	136-512	0.070"x20"	W-200	Fits Motorola HT Series Portables

NOTES: "T" under rod dimensions indicates a tapered element

\*\* Not recommended for rugged usage.

To determine model number for complete antenna with kit, just combine the **BOLD FACED** information from the Model Number column and the Mounting Kits column. For example the Q-52 antenna with LM-MM mounting kit would be **LMQ-52-MM**.



# LARSEN KÜLDUCKIE™ PORTABLE ANTENNAS

Flexible... Convenient... Rugged Antennas  
for Hand-Held and Portable Radios

## LARSEN KÜLDUCKIE™ PORTABLE ANTENNAS

The quality, performance and reliability associated with Larsen Antennas is readily evident when your portable or hand-held feeds into a Larsen Kūlduckie Antenna.

**Rugged** . . . withstand 180° bend in all directions . . . torque resistance exceeds 20-inch-pounds (stud to antenna element).

**Efficient** . . . VHF and UHF models wound with .042 highly flexible wire . . . **then plated for maximum radiation efficiency** with high conductivity metals. UHF ¼ wave models of high carbon steel, flexible shaft core.

**Reliable** . . . protected by heavy duty coating of shrink tubing to prevent detuning with coil shorting.

**Accurate** . . . precision tuned for lowest V.S.W.R.

**All Weather Protected** . . . against moisture and other environmental concerns. Stays flexible to -30°F.

### SPECIFICATIONS:

- Handles full 25 watts.
- Models for both VHF and UHF frequencies.
- Impedance 50 ohms (nominal).  
Will vary with ground plane provided by individual portable.
- Every antenna color coded.



Exterior PVC coating gives Larsen Kūlduckie™ portable antennas a sleek finish, but doesn't contact the radiating element and cause dielectric losses.

Larsen protects the radiating element with a double layer of special low dielectric loss, heat-shrinkable tubing for maximum protection and performance.





















Maximum efficiency copper plated radiating element uses power to communicate. Non-plated elements have high resistivity to RF energy, causing dielectric losses.

Larsen solders the electrical connection and covers it with a copper jacket, then floods it with solder. This gives double protection at the point of maximum stress. The copper jacket takes the abuse, not the solder joint.

Larsen uses silver plated steel pins or durable top quality plated brass connections for longer life.



# LARSEN KÜLDUCKIE™ PORTABLE ANTENNAS

FOR THESE RADIO TYPES	MOTOROLA All HT, MT, and MF Types	MOTOROLA MX Type	ANY RADIO WITH TNC OUTPUT WILSON TAMAPHONE	ANY RADIO WITH BNC OUTPUT WILSON TEMPO	GENERAL ELECTRIC PE Series MVP Series	GENERAL ELECTRIC PR Series	RCA REPCO STANDARD	GENERAL ELECTRIC MPR OUTPUT	ANY RADIO WITH SO-239	REPCO RPX
VHF & UHF PORTABLE ANTENNAS										
HELICAL TYPE										
MODEL NO. & SERIES DESIGNATION	KD-1	KD-2	KD-3	KD-4	KD-5	KD-6	KD-7	KD-8	KD-9	KD-10
ANTENNA TYPE	HELICAL	HELICAL	HELICAL	HELICAL	HELICAL	HELICAL	HELICAL	HELICAL	HELICAL	HELICAL
THREAD SIZE	5/16"x32 TDS 1/2" Long	1/4"x32 TDS 3/16" Long	Standard TNC Male	Standard BNC Male	7/16"x40 TDS Female	1/4"x32 TDS 3/8" Long	5/16"x32 TDS 3/8" Long	#12 x 28 TDS	Standard PL-259 Conn.	1/4"x28x1" Stud
MHz FREQUENCY RANGES AVAILABLE & COLOR CODE (Printed on Cap)	Blue	136-142	136-142	136-142	136-142	136-142	136-142	136-142	136-142	136-142
	Green	142-150	142-150	142-150	142-150	142-150	142-150	142-150	142-150	142-150
	Yellow	150-162	150-162	150-162	150-162	150-162	150-162	150-162	150-162	150-162
	Red	162-174	162-174	162-174	162-174	162-174	162-174	162-174	162-174	162-174
	Orange	406-420	406-420	406-420	406-420	406-420	406-420	406-420	406-420	406-420
	Yellow	450-470	450-470	450-470	450-470	450-470	450-470	450-470	450-470	450-470
	Green	470-512	470-512	470-512	470-512	470-512	470-512	470-512	470-512	470-512
UHF PORTABLE ANTENNAS										
1/4 WAVE TYPE										
MODEL NO. & SERIES DESIGNATION	KD-11	KD-12	KD-13	KD-14	KD-15	KD-16	KD-17	KD-18	KD-19	KD-20
ANTENNA TYPE	1/4 WAVE	1/4 WAVE	1/4 WAVE	1/4 WAVE	1/4 WAVE	1/4 WAVE	1/4 WAVE	1/4 WAVE	1/4 WAVE	1/4 WAVE
THREAD SIZE	5/16"x32 TDS 1/2" Long	1/4"x32 TDS 3/16" Long	Standard TNC Male	Standard BNC Male	7/16"x40 TDS Female	1/4"x32 TDS 3/8" Long	5/16"x32 TDS 3/8" Long	#12 x 28 TDS	Standard PL-259 Conn.	1/4"x28x1" Stud
MHz RANGES & COLOR CODE	406-512	406-512	406-512	406-512	406-512	406-512	406-512	406-512	406-512	406-512

**KÜLDUCKIE ANTENNA LENGTHS** Helical Type: Approximately 6.5" at VHF; 2" at UHF. 1/4" Wave Type: Approximately 6.5" at UHF.

## How to select a Külduckie Antenna from the chart above:

1. Locate your Radio or Connector type in one of the ten boxes across the top of the chart.
2. Determine the frequency you operate on — VHF or UHF.
  - a. If **VHF**, the appropriate Helical type antenna illustration and model (KD-1, etc.) are shown next.
  - b. If you wish a **UHF**, you have the choice of the Helical type (KD-1 through KD-10) — or a 1/4 wave type (KD-11 through KD-20) as shown across the lower part of the chart in the shaded area.
3. Finally, you select the MHz frequency range you operate on.

### Example:

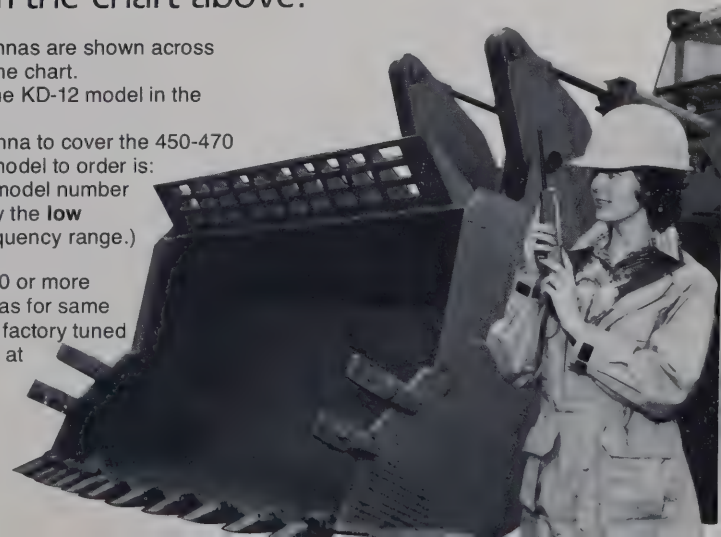
You have an MX Type Motorola radio (top of second column).  
You want a UHF 1/4 wave antenna.

The 1/4 wave antennas are shown across the lower part of the chart.

Your antenna is the KD-12 model in the second column.

You want an antenna to cover the 450-470 MHz range. The model to order is: KD-12-406 (The model number KD-12 followed by the **low** number of the frequency range.)

**Note:** Orders of 50 or more Külduckie Antennas for same frequency can be factory tuned to your frequency at no extra cost.





# LARSEN KÜLROD® MOBILE ANTENNAS

# PORTABLE

## PORTABLE

### PO-150 MODEL

Covers 144-174 MHz

Does Not Require a Ground Plane

The Larsen PO-150 is a 5/8 wave, base loaded antenna working at ground potential and designed to give superior performance even when there is no ground plane to work against. And it does this with very acceptable V.S.W.R. and real communications efficiency. It's built with heavy duty exclusive Larsen Külrod whip and hi-impact base coil construction.

The Larsen PO-150 is ideal for installation on fiberglass vehicle roofs; for improved portable operations; for boats, recreation vehicles, farm machinery and the like.

- Rugged and dependable.
- Fits any standard PL-259 antenna socket as found on most portables.
- Full 5 MHz band width.
- Handles a full 200 watts.

The PO-150 as a GAIN Antenna!

Combine the Larsen PO-150 Antenna with an adequate ground plane and it becomes a GAIN ANTENNA for even better performance . . . up to 3 db gain over a 1/4 wave whip!

The Larsen PO-150 Antenna mates with . . .

**Larsen BSA-K hardware** for a complete Base Station installation.

**Larsen SB-K hardware** for sail or motor boat installation.

**SO-239 Type bases** such as are found on many portables and some mobile units. Also with the Larsen BA Bulkhead adapter.



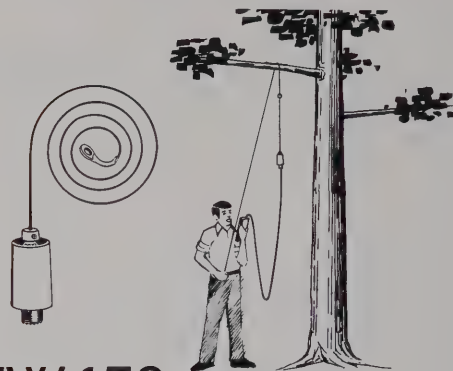
**Improve The Performance of Portables or Hand Helds.** With Külrod, the PO-150 improves the performance of hand helds equipped with "rubber duckie" antennas. But for real communications improvement combine the PO-150 with the BSA-K kit and you get fantastic gain. You will HEAR the difference.

## MHW-150 MODEL

Mobile 1/2 Wave Antenna Covers 144-148 MHz

This half-wave antenna combines the best of the PO-150 and the OM-150-K antennas. It can be used without a ground plane like the OM, but is like the PO-150 in physical configuration so it fits any female UHF connection such as Larsen's BSA-K, BA and BA-K mounting kits and many makes of radios.

## PORTABLE/ EMERGENCY ANTENNA



### PHW-150 MODEL

- Covers 144-174 MHz
- Requires No Ground Plane
- Very Portable . . . fits in your pocket.

The PHW-150 is a loaded half-wave antenna that features a stainless steel flexible radiating element that allows the PHW to be rolled up to a compact size for easy portability.

When needed, you just attach a length of nylon fishing line to the antenna's eyelet, attach a weight to the other end of the line and heave the weight over a tree limb. You then simply hoist the PHW into the air using the fish line. The PHW is connected to your radio with any length of coaxial cable. It's like having a base antenna and tower in your pocket.

The PHW-150 can give a portable as much as 20 db gain when compared to the portable's normal antenna.

The PHW antenna comes without fishline, weight, and coaxial cable.

The PHW series antennas are available in low band frequencies, but their applications are limited due to the length of the radiating element (approx.  $5613/\text{FREQ} = \text{length in inches}$ ). For example, at 42 MHz, the element would be approximately 134". Because of their limited application, low band PHW's are made to order. Please contact factory for details on pricing and delivery.



# LARSEN KULROD® MOBILE ANTENNAS

## OMNI

### OMNI SERIES

For quick, easy, practical mounting on fiberglass roofs, boat decks, truck tops, recreational vehicles or wherever there is no ground plane; or the thickness of the mounting material prohibits usual vehicle mounts. A real break-thru in antenna design and convenience delivering good looks and top performance.

#### Requires no ground plane!

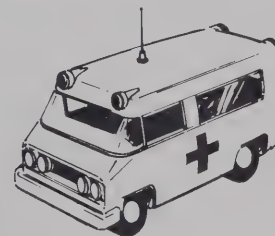
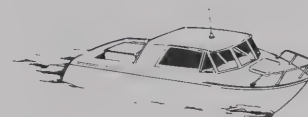
- Mounting flange and base loading coil housing in a single, sealed, weatherproof unit.
- Handles a full 150 watts output power.
- Mounting instructions, cutting chart, mounting screws all furnished.
- Available in models for High Band and U.H.F.

#### OM-150-K

- Base loaded 1/2 wave antenna.
- Delivers unity gain **without** a ground plane.
- Delivers 2 to 2.5 db gain over a quarter wave whip with ground plane of 1/2 wave or more radius.
- For 144-174 MHz use order OM-150-K.

#### OM-450-K

- Collinear Antenna with phasing coil.
- Delivers 2 db gain **without** a ground plane.
- Delivers 4 db gain over a quarter wave whip **with** a ground plane of 24" or more radius.
- For 450-470 MHz use order OM-450-K.



Comes with coax (17' RG 58 A/U) assembled to the coil/mount.





# LARSEN OMNI DIRECTIONAL ANTENNAS BASE STATION

## FB1-136 MODEL

136-230 MHz coverage with a single unit!

With the Larsen FB1-136 Fixed Base Antenna, a wide range of frequencies (94 MHz) can be accommodated by a single unit. This simplifies inventory problems and increases the installations you can easily handle from stock.

- Handles full 500 watts of power.
- VSWR is less than 1.5 to 1 over 5 MHz bandwidth at any frequency setting.
- Provides 3.6 db Gain over 1/4 wave ground plane.

### DESIGN FEATURES:

- Only three simple adjustments necessary to get optimum operations on any frequency within the desired range. Adjustment chart provided.
- Whip is tapered, heavy gauge exclusive Kūlrod® construction for maximum radiation efficiency. Ground radials are also Kūlrod® plated.
- Electrically grounded for safety and reduction of static build-up.
- Mounting bracket is Iridite plated to resist rust.
- Antenna connection accepts standard PL-259 connector.
- Clamps to any size pole from 3/4" to 1-1/2" diameter.
- Weighs only 2 pounds 3 ounces.



Can be completely assembled and adjusted on the ground.



# LARSEN KÜLROD® BASE ANTENNAS

## BASE STATION

### BSA SERIES

A complete base station antenna kit that is easy to install and gives top performance. It combines the proved Larsen Külrod mobile antenna with the necessary hardware to mount on a pole or tower.

- Heavily plated steel mounting hardware resists rust and corrosion.
- Weighs less than 1.5 pounds . . . has nearly zero wind resistance.
- Handles full 200 watts.
- Has low, low V.S.W.R. . . . less than 1.5 to 1.
- Models available for all popular frequencies in the VHF and UHF bands.
- Mount mates with standard PL-259 plug for coax connection.
- **Gain 2.5 db at VHF Frequencies . . . 4.5 db at UHF Frequencies** (compared to standard 1/4 wave whip).

#### ORDER THE LARSEN KÜLROD BASE STATION ANTENNA TO COVER DESIRED FREQUENCY OF OPERATION . . .

Model	Frequency covered	Type of Antenna
BSA-40-K	40-50 MHz	Base loaded 1/4 wave
BSA-150-K	144-174 MHz	Base loaded 5/8 wave
BSA-406-K	406-420 MHz	Collinear
BSA-440-K	440-460 MHz	Collinear
BSA-450-K	450-470 MHz	Collinear

All above antennas come complete with ground radials, mounting hardware, mounting and tuning instructions, allen wrench for attaching radials plus clamps for attaching to pole.

#### Mounting Hardware Only

The Larsen BSA-K base station kit is available **less** antenna. It mates with the NLA Series or the PO Series. It also mates with NMO models when proper adapter is used. See page 12.

*For Base Station Mounting Kit without antenna order BSA-K.*

The Larsen BSA-K antennas have great potential for monitoring applications, with scanners and many other Specialized Applications. Their easy and quick installation make them ideal for many temporary set-ups.

*Mounts on any pipe . . .  
3/4" to 1-1/2" in diameter.*

The BSA-K can be used with PQ antenna (pg 19) to form a 1/4 wave ground plane antenna with unity gain.

# LARSEN DIRECTIONAL BASE ANTENNAS

## YAGI's

### The Larsen YAGIs

#### *All Weather Ruggedness ... Superior Performance*

The Larsen Yagis cover the most popular frequency bands in the 406 to 512 MHz range. Constructed of heavy duty aluminum, they have an extra durable and highly conductive alodine finish. This distinctive gold coating protects the aluminum from corrosive build-up without harming performance.

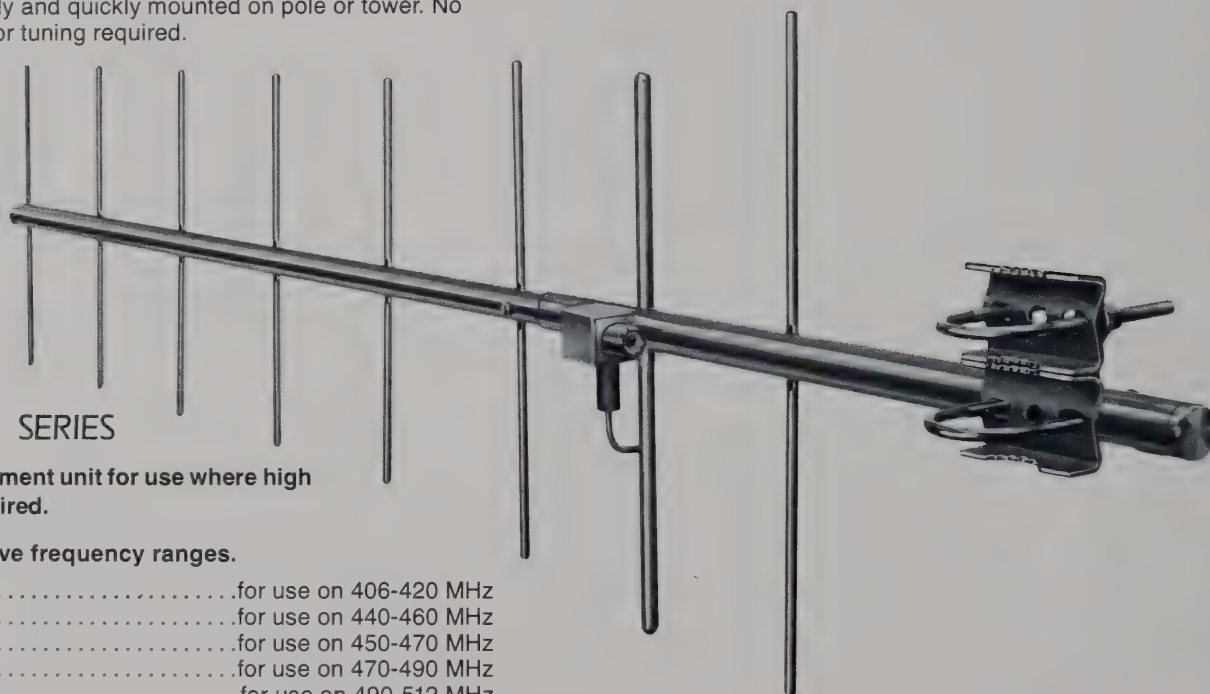
A unique method of staking the antenna elements to the boom provides trouble free electrical and mechanical performance. Its light weight and simple mounting mechanics make it easily and quickly mounted on pole or tower. No adjustment or tuning required.

### YA-1 SERIES

An eight element unit for use where high gains is desired.

#### Choice of five frequency ranges.

YA-1-406 .....	for use on 406-420 MHz
YA-1-440 .....	for use on 440-460 MHz
YA-1-450 .....	for use on 450-470 MHz
YA-1-470 .....	for use on 470-490 MHz
YA-1-490 .....	for use on 490-512 MHz



#### Electrical and Mechanical Specifications:

Bandwidth .....	All models as specified above
VSWR .....	Less than 1.5 to 1
Impedance .....	50 Ohms
Forward Gain .....	11 db
Front to Back Ratio .....	23 db
Maximum Power .....	300 Watts
Feed Connection .....	Integrally mounted SO-239 to accept PL-259 Plug
Lightning Protection .....	Direct Ground
Horizontal Beamwidth .....	42 Degrees
Vertical Beamwidth .....	50 Degrees
Elements .....	Solid Aluminum Rod
Boom Material .....	Heavy duty aluminum 7/8" and 3/4" O.D. 53" Long
Mounting Hardware .....	Heavy Duty U bolts double welded to accommodate up to 1 1/2" O.D. pipe
Weight .....	2.4 Lbs. Max. at lowest freq.



# LARSEN DIRECTIONAL BASE ANTENNAS

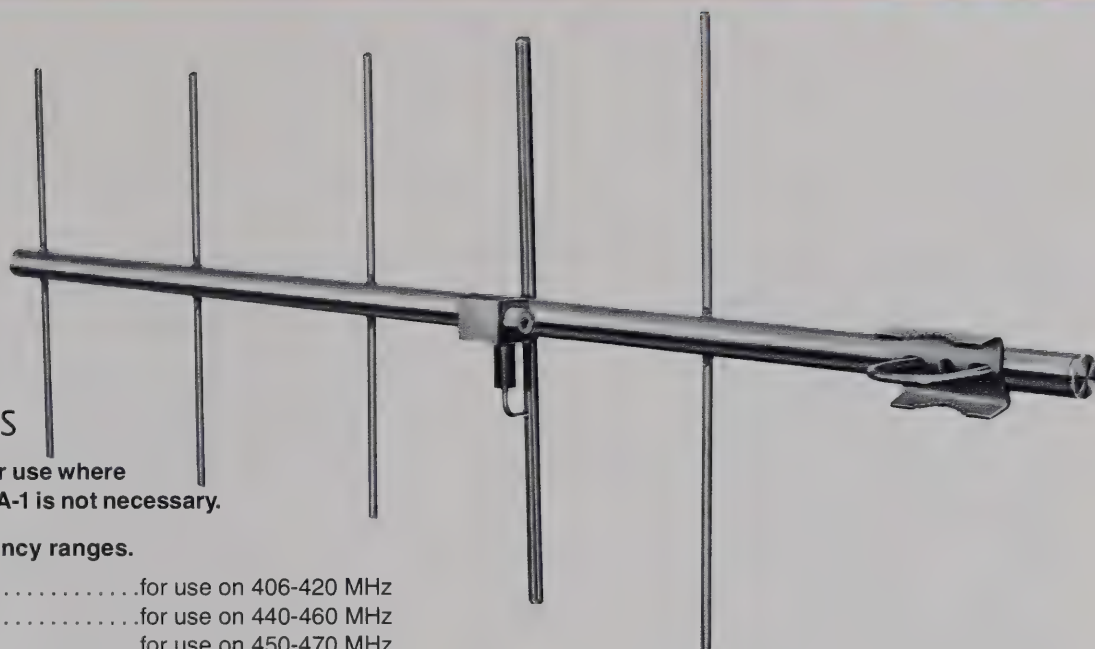
## YAGI's

### YA-2 SERIES

A five element unit for use where the high gain of the YA-1 is not necessary.

Choice of five frequency ranges.

YA-2-406	.....for use on 406-420 MHz
YA-2-440	.....for use on 440-460 MHz
YA-2-450	.....for use on 450-470 MHz
YA-2-470	.....for use on 470-490 MHz
YA-2-490	.....for use on 490-512 MHz

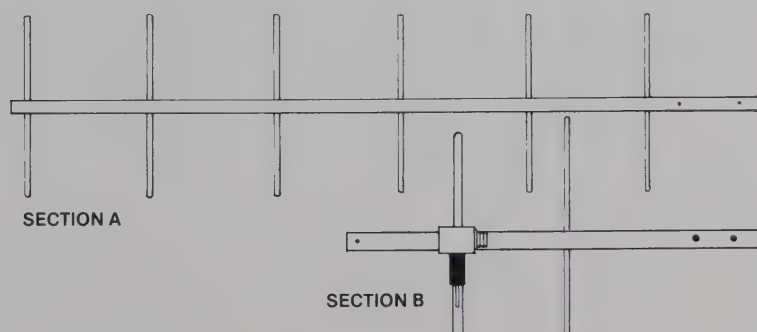


### Electrical and Mechanical Specifications:

Bandwidth	.....All models as specified above
VSWR	.....Less than 1.5 to 1
Impedance	.....50 Ohms
Forward Gain	.....8.5 db
Front to Back Ratio	.....20 db
Maximum Power	.....300 Watts
Feed Connection	.....Integrally mounted SO-239 to accept PL-259 Plug
Lightning Protection	.....Direct Ground
Horizontal Beamwidth	.....44 Degrees
Vertical Beamwidth	.....53 Degrees
Elements	.....Solid Aluminum Rod
Boom Material	.....Heavy duty aluminum 3/4" O.D. 33" Long
Mounting Hardware	.....Heavy Duty U bolt to accommodate up to 1 5/8" O.D. pipe
Weight	.....1.2 Lbs. Max. at lowest freq.

### Packaged for convenient shipping and storage.

The YA-1 Yagi comes in two sections which must be joined before mounting. This is done easily and quickly with a screwdriver. Self-taping screw is included.



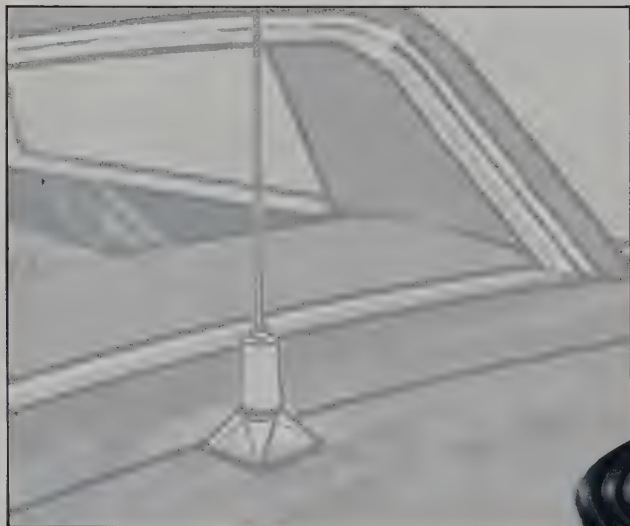
# LARSEN KULROD® MOBILE ANTENNAS MOUNTS

## TLM SERIES

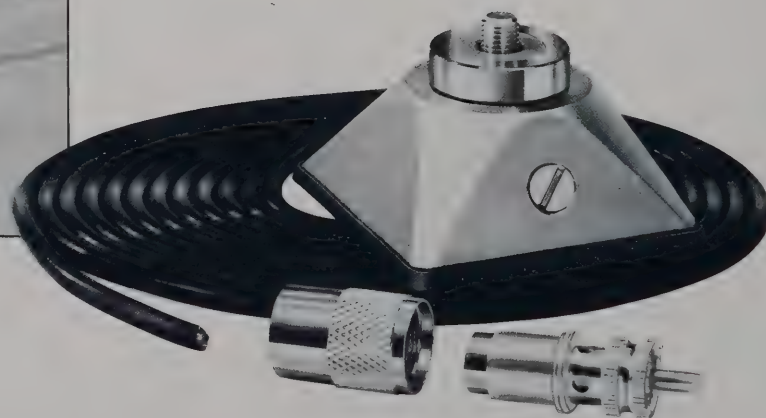
### TRUNK LID MOUNT

Gives you a "no holes" trunk lid installation that is practical, good looking and easy to install.

- Finished in high chrome for great appearance.
- Clamping bracket of heavy gauge steel.
- Stainless steel, hollow head, allen head set-screws clamp to underside of trunk lid for real hold.
- Car finish fully protected.
- Models available to fit all popular antennas including Larsen, RCA, Motorola, GE, ASP, etc.
- Comes complete with 17' of RG-58 A/U coax factory attached to mount plus coax connector.



Mobile Antenna Models	Order Larsen Trunk Lid Model:
For all Larsen NLA Antennas .....	NLA-TLM
All antennas with 5/16"x24 thread; such as, Larsen LM or Larsen LA/JM plus GE, RCA, and some models of ASP .....	LM-TLM
For Motorola TAD & TAE series models, Larsen NMO models, and a number of ASP .....	NMO-TLM
All antennas with PL-259 type hardware .....	PO-TLM
Trunk Lid chassis only—no antenna mounting hardware included. Has 3/8" hole for hardware you supply and <b>no</b> coax or connector plug included .....	TLM-38
Same Trunk Lid chassis only except has 3/4" hole for hardware you supply .....	TLM-34
Same except has 5/8" hole for hardware you supply .....	TLM-58





# LARSEN KULROD® MOBILE ANTENNAS MOUNTS

## MM SERIES

### MAGNETIC MOUNT with Super Hold!

The secret of the Larsen Magnetic Mount lies in the carefully engineered heavy duty magnets. A recent improvement in the mount insures flatness of the magnetic assembly for increased holding power. Also, the reinforced capacitive coupling improves the lifespan. Finally, a new "rubber like" outer covering decreases the chance that the mount might harm the paint finish. These mounts are guaranteed to stay put at all legal vehicle speeds with 5/8 wave gain antenna attached.

- Roof-hugging low silhouette.
- Grips to any ferrous metal surface.
- Magnets **guaranteed permanent** in all ordinary use.
- Large surface area assures adequate capacitive coupling to ground plane.
- Tough, marbledized, all-weather finish.

**MATCH THE MOBILE ANTENNA YOU WILL USE WITH THE LARSEN MAGNETIC MOUNT THAT IS A DIRECT FIT.**

Mobile Antenna Models	Order Larsen Magnetic Mount Model:
All Larsen LA, JM and LM Models. ....	LM-MM
All Larsen NLA Models. ....	NLA-MM
All Larsen NMO Models. ....	NMO-MM
All Larsen PO-150 and others with PL-259 Type Base. ....	PO-MM
All makes with 5/16"x24 female thread in base; such as, RCA, GE, A.S.P. ....	LM-MM
Motorola TAD and TAE series and other compatible antennas. ....	NMO-MM

All above models come completely assembled ready to accept the mobile antenna of your choice. Unit includes attached 12' of RG-58 A/U coax and coax connector.



#### MICROMINIATURE PLUG FOR MAGNETIC MOUNT ...

such as used on many hand-held portables is available as a substitute for the PL-259 type plug. To get this option add the suffix "M" to the Larsen Magnetic Mount designation. Example "NMO-M-MM" or "NLA-M-MM", etc. No change in price for the microminiature plug in place of regular plug.



# LARSEN KULROD® MOBILE ANTENNAS MOUNTS

## GC SERIES

### GUTTER CLAMP MOUNT

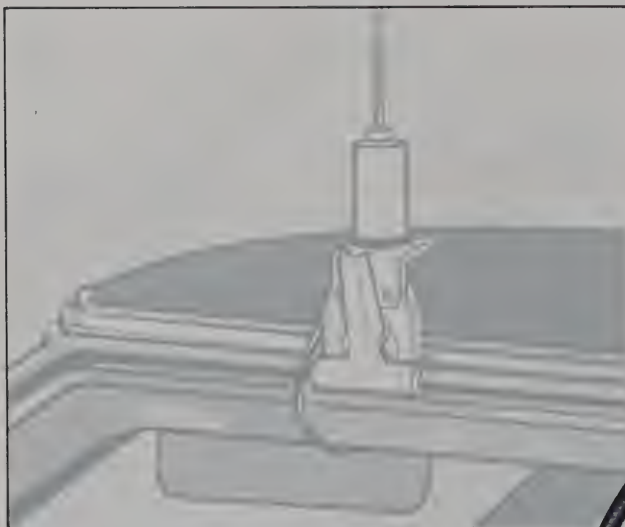
*for Quick . . . Easy . . . Temporary  
Antenna Mounting*

A great way for temporary antenna mounting without holes. Design provides a positive ground plane to assure full antenna efficiency.

- Clamps to any car or cab gutter for no-mar attachment.
- Unit easily adjusted for upright antenna on any style of gutter.
- Heavily plated for all weather protection.
- Comes completely assembled.

#### SIMPLE 1-2-3 AND TRANSMIT!

Just screw on the antenna of your choice . . . clamp to your car or truck . . . attach coax to your equipment and you're ready to go.



#### MICROMINIATURE PLUG FOR GUTTER CLAMP MOUNT

such as used on many hand held portables is available as a substitute for the PL-259 type plug. To get this option add the suffix "M" to the Larsen Gutter Clamp designation. Example "LM-GCM" or "NLA-GCM", etc. No change in price for the microminiature plug in place of regular plug.

#### 5 LARSEN GUTTER CLAMP MOUNTS AVAILABLE ... A MODEL TO FIT THE MOBILE ANTENNA OF YOUR CHOICE

Antenna you will use with Gutter Clamp Mount	Order Larsen Gutter Clamp Model
All Larsen LA, JM and LM Models . . . . .	LM-GC
All Larsen NLA Models . . . . .	NLA-GC
All Larsen NMO Models . . . . .	NMO-GC
All Larsen PO-150 Models and Others with PL-259 Type Base . . . . .	PO-GC
All makes with 5/16"x24 female thread in base such as RCA, GE, A.S.P. . . . .	LM-GC
Motorola TAD and TAE series and compatible A.S.P. models . . . . .	NMO-GC
Larsen Quarter Wave Antenna and Gutter Clamp Mount . . . . .	LMQ-GC

All above models come completely assembled ready to accept the mobile antenna of your choice. Unit includes 10' of RG-58 A/U coax and coax connector.





# LARSEN KULROD® MOBILE ANTENNAS MOUNTS

## TMB SERIES

### TRUNK GUTTER MOUNT

Provides the simplest mounting of a mobile antenna. Stainless steel "L" bracket fastens with three stainless steel self-tapping screws to the inside of the trunk gutter or the engine hood. Goes on in minutes for a highly satisfactory installation that requires no 3/4 or 3/8 inch holes in the car body to depreciate value.

- Mounting bracket of heavy 18-gauge stainless steel.
- Comes complete with mounting screws, antenna mounting hardware and coax. PL-259 plug also included.
- Three models to fit all needs of popular makes.



#### Mobile Antenna Models

#### Order Larsen Trunk Gutter Model

All Larsen NLA antennas.....	NLA-TMB
For Larsen NMO, Motorola TAD & TAE series models and other compatible antennas.....	NMO-TMB
All antennas with 5/16"x24 stud; such as, Larsen LM or Larsen LA/JM plus GE, RCA and some models of ASP.....	LM-TMB

Larsen Trunk Gutter stainless steel brackets with no hardware mounting provisions and with choice of 3/8" or 5/8" or 3/4" holes for use with mountings and antennas you supply, are available:

Hole Size	Order Model No.
3/8"	TMB-38
5/8"	TMB-58
3/4"	TMB-34
For Larsen OM Series Antennas	TMB-OM

Required 3 sheet metal mounting screws are included.

# LARSEN KÜLROD® MOBILE ANTENNAS

# AMATEUR

## AMATEUR ANTENNAS

### Over 30 Band and Mounting Choices with Larsen.

No matter the need or application, Larsen has an antenna to meet the many VHF and UHF requirements of the Amateur Radio Service. These are antennas already proved in the commercial two-way radio field as the ones that let you HEAR the difference. For your own Larsen Kūlrod Antenna for the specific frequency you will operate on and using the type of mount that fits your fancy, check below. Then look to the specs and added ordering data on the reference pages.

### 6 Meters...50.0 to 54.0 MHz

The Larsen Kūlrod 2 meter (144-174 MHz), 5/8 wave antenna works as a base loaded 1/4 wave on 6 meters. Gives you a low profile, effective and efficient radiator. **See pages 7 thru 11 for styles and mounting options.** Order 150 MHz models (NMO-150-K, LM-150-K, etc.)

### 2 Meters...144 to 148 MHz

The most talked about and most used mobile antenna on the 2 Meter Band be it simplex or via repeater. This is the one that delivers the difference you can HEAR. **See pages 7 thru 11 for choice** of mounts either permanent or temporary. Order 150 MHz models (NLA-150-K, NMO-150-K, etc.)

### 1-1/4 Meters...220-225 MHz

These Larsen's, like all others supplied by this active old-time amateur, have the exclusive Kūlrod whip. It's your assurance of no loss of power thru heat. **See pages 7 thru 11** for 5 different permanent mount choices and 4 temporary mounts that mate with them. Order 220 MHz models (JM-220-K, NMO-220-K, LM-220-MM, etc.)

### 3/4 Meters...440-450 MHz

These collinear design Larsen's deliver a gain of 5 db over a 1/4 wave. And they're built to stand rough usage and all kinds of weather. **See pages 12 thru 16** for permanent and temporary models to meet your every need. Order 440 MHz models (JM-440-K, NMO-440-K, LM-440-TLM, etc.)

### Larsen's New Easy Reading Amateur Catalog

Twenty-seven pages of Larsen Kūlrod antennas, mounts and accessories in the complete range of amateur frequencies in low, high and UHF bands. All in an easy-to-read, pocket size format. Includes price list.

## SPECIAL AMATEUR ANTENNAS

### Base Station

Gain antennas for 144 and 440 MHz use. Up in a jiffy and work great. Rugged yet minimal wind drag. See pages 24, 25, 26 and 27.

### Portables

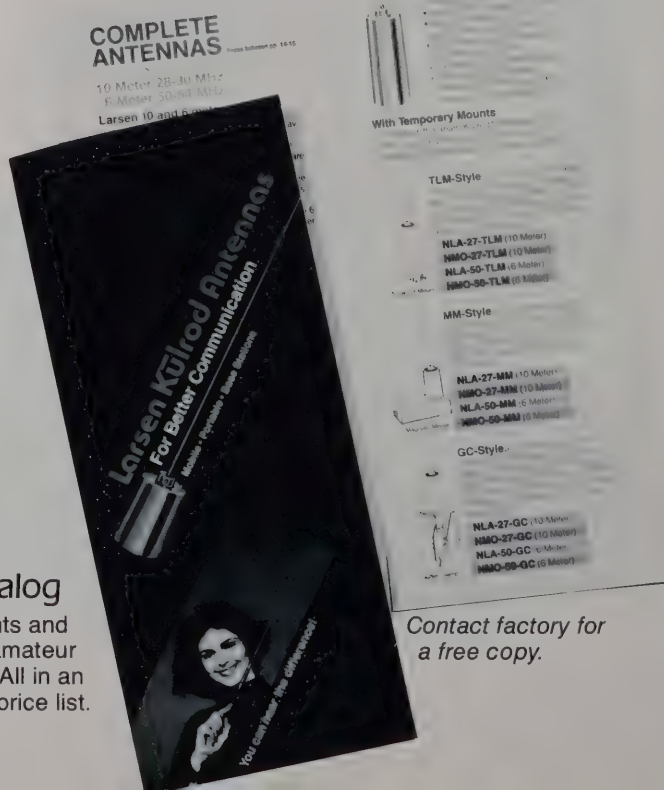
Get real performance out of that hand-held even from tough spots. Also carry an antenna and tower in your pocket. See page 22.

### No Ground Plane

And still get out. The only antenna designed specifically for fiberglass tops on recreation vehicles, boats, sports cars, etc. See page 23 for the OMNI Antenna.

### Hand-Helds

Add the shorter length, greater flexibility and improved convenience of the Larsen Kūlduckie antenna to your hand-held without losing on performance. Models for 144, 220 and 440 frequencies. See pages 20 and 21 for Larsen Kūlduckie types, and order with **amateur frequency**.





# LARSEN KULROD™ MOBILE ANTENNAS HARDWARE/PARTS

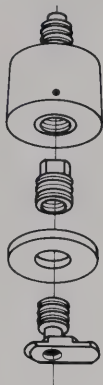
## MOUNTING HARDWARE

### JM-B

#### FOR JM ANTENNA

3/8" hole; mounts in Roof/Trunk/Fender.

(No coax cable or connector included)

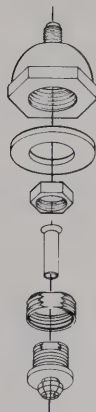


### LA-B

#### FOR LA ANTENNA

3/8" hole; mounts in Roof/Trunk/Fender.

(No coax cable or connector included)

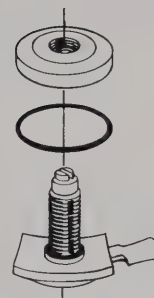


### LM-B

#### FOR LM ANTENNA

3/4" hole; mounts in Roof/Trunk/Fender.

(No coax cable or connector included)



### NLA-B

#### FOR NLA ANTENNA

3/8" hole; mounts in Roof/Trunk/Fender.

(No coax cable or connector included)

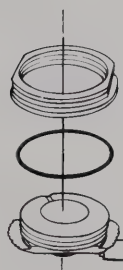


### NMO-B

#### FOR NMO ANTENNA

3/4" hole; mounts in Roof/Trunk/Fender.

(No coax cable or connector included)



### BAM-B

#### COWL MOUNT FOR NLA ANTENNA

(With Adapter Kit A-2 — see below — the BAM-B also accommodates NMO Antennas.)

15/16" hole; for fender, trunk or where a slanting surface inhibits vertical mounting of antenna.



(No coax cable or connector included)

## ADAPTERS

Just 3 simple Larsen Mounting Adapters add flexibility and adaptability to the Larsen Kūlrod Antenna line. They reduce stocking and inventory requirements. Specifically, the Larsen NLA and NMO Antennas have added mounting options with no loss in performance. Use the chart below to select the Adapter Kit you need.

Kit A-1



Kit A-2



Kit A-3



Kit A-4

Combines  
A-1  
&  
A-2

Kit A-5

Combines  
A-2  
&  
A-3

### TO MOUNT:

### USE ADAPTER KIT:

	A-1	A-2	A-3	A-4	A-5
NLA Antenna on ASP K-49 or K-57 mount			XX		
NLA Antenna on BSA-K or BA	XX				
NMO Antenna on BA (Bulkhead adapter)				XX	
NMO Antenna on BAM (Cowl mount)		XX			
NMO Antenna on BSA (Base Station) mount				XX	
NMO Antenna on NLA mount		XX			
NMO Antenna on SO-239 mount				XX	
NMO Antenna on SBK (Sail Boat Kit)				XX	
NMO Antenna on ASP K-49 or K-57 mount					XX

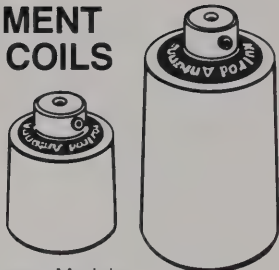
### NOTE:

The above adapter kits are intended to provide mounting flexibility and convenience for antenna installers. They should not be considered as the most satisfactory route to go as in most cases they do not offer the same low silhouette and design appearance as matching antennas and mounts offered throughout this catalog.

# LARSEN KULROD® MOBILE ANTENNAS

# HARDWARE/PARTS

## REPLACEMENT LOADING COILS



Available for all Larsen Models.  
Order by designating Model, Frequency Range and add initials "CO" which designates loading coil only.

**Example:** For base loading coil only for NLA-150 Antenna covering 144-174 MHz order NLA-150-CO.

**Example:** For Motorola Antenna coil only to cover 450 MHz range order NMO-450-CO, etc.

Loading coils so ordered do NOT include whip.

## KULROD® WHIPS

All Larsen Kulrod® whips are made from the finest 17-7 stainless steel, plated with the unique Kulrod plating process to improve conductivity and RF performance.

### Model No. Description

W-030	Replacement whip for Q-800 or NMOQ-800 3" x 0.100" non-tapered.
W-155	Collinear whip replacement for all UHF 5 dB antennas except OM series.
W-160	Collinear whip replacement for OM Series UHF antenna.
W-200	Replacement whip for all 136 to 512 MHz quarter wave antennas. 20" x .070" non-tapered.
W-400	Replacement whip for 88 to 136 MHz quarter wave antennas 40" x 0.100" non-tapered.
W-490	Replacement whip for most VHF gain antennas and low band loaded quarter wave antennas. 49" x 0.100" tapered.
W-540	Replacement whip for 52-88 MHz quarter wave antennas. Also used to allow VHF antennas to operate between 136 and 174 MHz. 54" x 0.100" tapered.

## "O" RINGS

O-NMO	"O" Ring Kit with 3 Rings for NMO mount.
O-LM	"O" Ring Kit with 3 Rings for LM mount.
O-NMO-Q	"O" Ring Kit with 3 Rings for NMO-Q mount.



## HOLE PLUGS

HP-38	3/8" size. 6 per pkg.
HP-34	3/4" size. 5 per pkg.



## RUBBER GASKETS

### Model No. Description

RG-LM	Rubber gasket for LM Mounts.
RG-FB1	Rubber gasket for FB1 Antenna.
RG-NLA	Rubber gasket for NLA Mounts.
RG-NMO	Rubber gasket for NMO Mounts.
RG-LA	Rubber gasket for LA Mounts.
RG-SBK	Rubber gasket for SBK Mounts.
RG-JM	Rubber gasket for JM Mounts.
RG-OM	Rubber gasket for OM Mounts.
RG-TLM	Rubber gasket for TLM Mounts.



All gaskets are packed 3 per pkg.



## CONTACT REPLACEMENT KIT

CRK	Contact replacement kit for all NLA Models . . . consists of teflon insulator and silver contact pin.
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## BULKHEAD ADAPTERS

BA	Bulkhead adapter. Interfaces two PL-259 connections through a bulkhead. Particularly excellent for adapting PO antenna to fiberglass roofs.
BA-K	Bulkhead adapter, as above, but with 17' RG58A/U cable and two PL-259 connectors.



## PORTABLE ANTENNA

PQ	Quarter Wave antenna terminating in PL-259 plug to fit portable equipment; such as, GE Portamobile, Motorola, etc. High Band only.
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## RAIN CAP



For ordering: NMO-CAP  
NLA-CAP  
LM-CAP

Screws down over mounting hardware to protect it from moisture, dust and car washes. Made of rugged molded plastic. Indispensable where the same antenna is transferred back and forth from one car to another. Available for NMO, NLA and LM mounting series.



# LARSEN KULROD® MOBILE ANTENNAS HARDWARE/PARTS

## COAX CABLE

Model No.	Description
CX-100	RG-58 A/U Coax in 100' rolls.

## COAX FITTINGS AND CONNECTORS

PA-5	PL-259 Coax Fittings complete with UG-175 adapter. 5 per pkg.
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QC-60	Improved Coax Fitting for fastest assembly. 5 per pkg.
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BNC	Standard Male Connector. One per pkg.
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MP	Microminiature plug for portables. Includes protective shrink tubing.
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## KULDUCKIE CAPS

Two types:	CAP-1 for all KD-1 thru KD-9 antennas. CAP-2 for all KD-11 thru KD-19 antennas. When ordering indicate color to show your frequency of operation. 25 per pkg.
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CAP-1-Blue  
CAP-1-Green  
CAP-1-Red  
CAP-1-Orange  
CAP-1-Yellow

CAP-2-Black



*Larsen name color-coded on cap.*

## ANTENNA ROD TIPS

BALL-1	Fits W-490, W-540, Q-66 Antennas.
BALL-2	Fits Q, UHF Gain Antennas, NMO-Q and NLA-Q Antennas. 10 per pkg.



## CONES

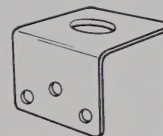
Q-CONE	Fits all Larsen "Q" Antennas.
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## SET SCREWS

Model No.	Description
# 8x32	Allen head stainless set screws. 25 per pkg.
#10x32	Allen head stainless set screws. 25 per pkg.

## TRUNK GUTTER MOUNT BRACKETS

TMB-34	Bracket for 3/4" hole.
TMB-38	Bracket for 3/8" hole.
TMB-58	Bracket for 5/8" hole.
TMB-OM	Bracket for OM series Antennas.



## SPRING

Narrow diameter shock spring made of electropolished stainless steel, positively shunted for dependable performance. This spring is compatible with Larsen 800 MHz antennas and Larsen UHF antennas made after January 15, 1981.



## Larsen Antenna Rod Cutter



CUTTER	Simplifies rod cutting for mobile antennas. Long handles (9") and a short fulcrum on the blade side allows for tightly spaced cuts. One set of two blades included with each Cutter.
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REPLACEMENT BLADES	Extra blades packaged two per set.
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# LARSEN KULROD® MOBILE ANTENNAS

## SPECIAL ANTENNAS & ADAPTERS

Designed to meet specific and specialized communications antenna needs.

### BT MODEL



This Larsen Antenna is designed to be an exact and easy fit for the Bugge/Burndy base used extensively by some telephone companies. It meets all standards and practices of this demanding industry. VHF model delivers full 3 db gain over quarter wave whip ... UHF model delivers 5 db gain.

Antenna only available from Larsen ... no mounts.

Order BT-150 ... for 144-174 MHz use.  
Order BT-450 ... for 450-470 MHz use.

### HY MODEL



This Larsen antenna is designed for mounting on bases that require a 3/8" x 24 thread stud. Gives you a tight, weatherproof and rugged installation. Stud is supplied for use if needed. Performance meets same high standards of all Larsen Kulrod VHF antennas. See page 7.

Antenna only available from Larsen ... no mounts.

Order HY-150 ... for 144-174 MHz use.

### MO MODEL



This antenna is the matchmate for the older style Motorola TU-316 mount. Gives top performance with a full 3 db gain over a quarter wave. UHF Model delivers 5 db gain. See pages 7 and 13 for more data.

Antenna only available from Larsen ... no mounts.

Order MO-150 ... for 144-174 MHz use.  
Order MO-220 ... for 220-225 MHz use.  
Order MO-440 ... for 440-460 MHz use.  
Order MO-450 ... for 450-470 MHz use.

### SA MODEL

This model for mating with the A.S.P. K-49 or K-57 mounts is no longer available. It is superseded by the Larsen NLA models with the A3 Adapter Kit. See Adapter Kit information below.



**BAM-K Cowl Mount** for fender, trunk or use where slanting surface inhibits vertical mounting of antenna. Mount mates with Larsen NLA Antenna. Also fits NMO Antenna with adapter kit A-2.

## The Larsen No Nonsense Full Six Month Warranty

Larsen Electronics, Inc. warrants to every user of a Larsen that it will perform to its specified ratings (published specifications) and will be free from defects in materials and workmanship. Larsen will repair or replace, without charge, any Larsen Antenna which fails within six months of the purchase date to meet this warranty. Excluded, of course, is failure due to misuse such as striking solid or foreign objects (trees, buildings, overhangs, doorways, etc.), improper installation and application of power in excess of specified ratings.

**Larsen will not, however, be responsible for any incidental or consequential damages due to failure of a Larsen Antenna under this warranty or any implied warranty.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

### CLAIMS INSTRUCTIONS

In order to obtain performance under the Larsen Warranty obligation, return the antenna to the factory. If you desire, you may request a postage-paid "Warranty Return Label", in which case Larsen will pay the postage. Make return shipment to:

Larsen Electronics, Inc.  
Attn: Customer Service Department  
P.O. Box 1686 Vancouver, WA 98668

**Include with the antenna** a note detailing the failure symptoms and indicate where and when the unit was purchased. **Be sure to include your full name and address.**

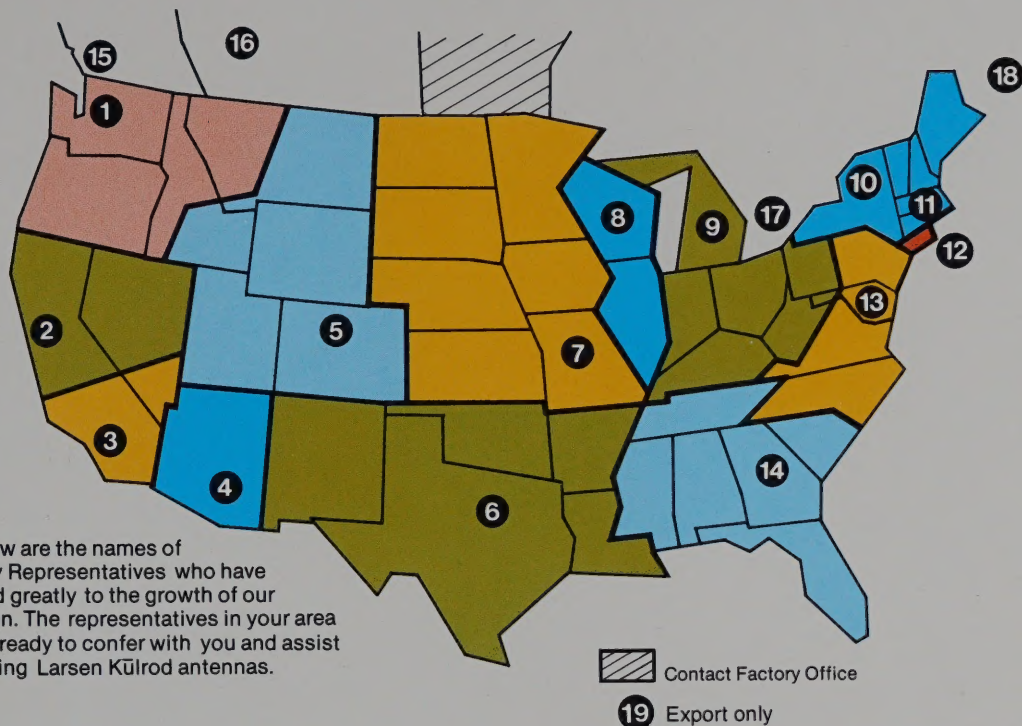
Upon arrival at the Larsen factory the antenna will be promptly repaired or replaced and returned to you postpaid.

**IMPORTANT: This warranty gives you specific legal rights and you may have other rights which vary from state to state.**

In the application of its No Nonsense Warranty it is the intent and policy of Larsen Antennas to always use the yardstick of the Golden Rule. It is on this foundation that the company has built and prospered.



# Larsen Electronics Sales Representatives and Factory Offices



Listed below are the names of our Factory Representatives who have contributed greatly to the growth of our organization. The representatives in your area are always ready to confer with you and assist you regarding Larsen K lrod antennas.

## U.S. Sales Representatives

1. Arva-Hudson, Inc.  
P.O. Box 1512 Bellevue, WA 98009  
(206) 455-0773
2. Raymarg  
P.O. Box 515 Santa Clara, CA 95052  
(408) 248-5199
3. Ross Communications, Inc.  
P.O. Box 4096 Covina, CA 91723  
(213) 967-2402
4. Ross Communications of Arizona  
P.O. Box 17913 Tucson, AZ 85731  
(602) 885-5368
5. Aurora Marketing  
2020 S. Oneida St.  
Suite 204 Denver, CO 80224  
(303) 758-3051
6. Horizon Eng. Sales Co.  
P.O. Box 768 Rockwall, TX 75087  
(214) 226-4712
7. Comm. Systems Assoc.  
520 W. 5th St. Cameron, MO 64429  
(816) 632-7616
8. Electronic Products, Inc.  
140 North Ave. Hartland, WI 53029  
(414) 367-2929 or (Illinois: 800-558-2331)
9. Webster Associates  
115 Bellarmine Rochester, MI 48063  
(313) 375-0420 or 800-521-2333 (except Michigan)
10. TriCom Sales Inc.  
401 Sherman St. Rochester, NY 14606  
(716) 458-2194
11. Johnson Associates Inc.  
148 Linden St. Wellesley, MA 02181  
(617) 235-3977
12. H.M. Holzberg Assoc.  
P.O. Box 322 Totowa, NJ 07511  
(201) 256-0455
13. Tessco Inc.  
1931 Greenspring Drive Timonium, MD 21093  
(301) 252-0860
14. Secom Systems  
5241-F New Peachtree Rd. Chamblee, GA 30341  
(404) 455-0672

## Canadian Sales Representatives

15. **British Columbia**  
Traeger Distributors Ltd.  
5600 Cedarbridge Wy., Unit 102 Richmond, BC V6X 2A7  
(604) 278-1541
16. **Alberta/Saskatchewan**  
Westcan Two-Way Radio Ltd.  
12618 - 124th St. Edmonton, AB T5L 0M7  
(403) 451-2355
17. **Ontario/Quebec**  
Kilpatrick Communications & Controls  
3640 Weston Rd., Unit #3 Weston, ON M9L 1W2  
(416) 743-6945
18. **Atlantic Provinces**  
Eastcom Industries Ltd.  
2760 Robie Street Halifax, NS B3K 4P2  
(902) 455-0294

## Caribbean, Central America, Northern South America

19. West Indies Sales Co.  
690 W. 28th St. Hialeah, FL 33010  
(305) 888-1676-77-82 Twx 810-848-6192

## Factory Offices

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283 East 11th Avenue Unit 101  
Vancouver, BC V5T 2C4 CANADA  
(604) 872-8517 Telex 04-54666  
CDN LARSEN VCR

Larsen Electronics, Inc.  
11611 N.E. 50th Avenue P.O. Box 1686  
Vancouver, WA 98668 U.S.A.  
(206) 573-2722 (503) 289-4108  
Telex 152-813 LARSENELC VANC

Larsen Electronics de Mexico S.A. de C.V.  
M. Antonio Caso #61-209 Mexico 4, D.F. MEXICO  
(905) 514-09-09

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